# Appendix One.

# Ethical Approval for the Current Study

### 1.1. University Research Ethics Application Form

Cover Sheet

I confirm that in my judgment, due to the project's nature, the use of a			
method to inform prospective participants about the project			
(e.g. 'Information Sheet' / 'Covering Letter' / 'Pre-Written Script'):			
Is relevant:	Mark 1	Box	Is <u>not</u> relevant:
			Х
(if relevant then this should be enclosed)			

I confirm that in my judgment, due to the project's nature, the use of a			
'Consent Form':			
Is relevant:	Mark '	1 Box	Is <u>not</u> relevant:
			Х
(if relevant then this should be enc	losed)		

Is this is a 'generic' application		
(i.e. does it cover more than project that is sufficiently similar)?		
Yes:	1 Box No:	
	Х	

#### A1. Title of Research Project:

Investigating Interactions between Word Juncture Development and the Acquisition of Syntax

# *A2. Contact person* (normally the Principal Investigator, in the case of staff-led research projects, or the student in the case of supervised-postgraduate researcher projects):

Title: Mrs.First Name/Initials: Sarah C.Last Name: BryanPost: Postgraduate Research Student Department: Human Communication SciencesEmail: s.c.bryan@shef.ac.ukTelephone: 0114 2222416

# A2.1. Is this a postgraduate researcher project? Yes

If yes, please provide the Supervisor's contact details:

Dr. Sara Howard Email: <u>s.howard@shef.ac.uk</u> Telephone: 0114 2222448

A2.2. Other key investigators/co-applicants (within/outside University), where applicable:

Please list all (add more rows if necessary)

]	Fitle	Full Name	Post	Responsibility in project	Organisation	Department

#### A3. Proposed Project Duration: Two years and 8 months

Start date: 01/2010

End date: 09/2012

	involves testing a medicinal product *
	involves investigating a medical device *
	the state of the s
	involves additional radiation above that required for clinical care *
	involves taking new samples of human biological material (e.g. blood, tissue) *
x	involves children or young people aged under 18 years
	intertes ennaren er Joung people ugen under 10 Jeune
	involves using samples of human biological material collected before for another
	purpose
х	involves only identifiable personal data with no direct contact with participants
	involves only anonymised or aggregated data
	involves only anonymised of aggregated data
	involves prisoners or others in custodial care (e.g. young offenders)
	involves adults with mental incapacity or mental illness
	has the primery aim of being educational (a.g. student research a project research
	has the primary aim of being educational (e.g. student research, a project necessary
	for a postgraduate degree or diploma, other than an MD or PhD)

Mark 'X' in one or more of the following boxes if your research:

A4.

\* If you have marked boxes marked \* then you also need to obtain confirmation that appropriate University insurance is in place. The procedure for doing so is entirely by email. Please send an email addressed to <u>insurance@shef.ac.uk</u> and request a copy of the 'Clinical Trial Insurance Application Form'.

### A5. Briefly summarise the project's aims, objectives and methodology.

(this must be in language comprehensible to a lay person)

This project aims to investigate interactions between phonological and syntactic development in connected speech. The data to be analysed form part of the dense database of child language collected by Professor Elena Lieven and colleagues from the Max Planck Child Study Centre, University of Manchester and the Max Planck Institute for Evolutionary Anthropology, Leipzig. The data comprise mostly audio data and some video data collected from several children over a period of three years, together with transcripts in a suitable format for computer-based analysis. This Project aims to analyse data from a minimum of two participants. The analysis will involve a combination of perceptual and computer-based methods.

#### A6. What is the potential for physical and/or psychological harm / distress to participants?

The prevention of harm to participants in this study involves the continued implementation of measures to ensure the confidentiality of their data, as specified by Professor Lieven. (Please see section A10 and appended documents for further information.)

A7. Does your research raise any issues of personal safety for you or other researchers involved in the project? (especially if taking place outside working hours or off University premises)

This research will be entirely computer-based, taking place either within the department or in the student's home. There are therefore no additional risks to those encountered in a typical office environment.

#### If yes, explain how these issues will be managed.

#### A8. How will the potential participants in the project be:

#### i. Identified?

The two participants in this project have been selected on the grounds that a comprehensive data corpus is available for them both, they have been compared in previous research and their linguistic skills have been found to differ considerably.

- ii. Approached?
- iii. Recruited?

### A9. Will informed consent be obtained from the participants?

Х

YES NO

If informed consent or consent is not to be obtained please explain why. Further guidance is at: <a href="http://www.shef.ac.uk/researchoffice/gov\_ethics\_grp/ethics/

The participants' consent has previously been obtained by Professor Lieven and colleagues prior to data collection. Professor Lieven has granted the student and supervisors permission to use the database for the purposes of this study.

A9.1. This question is only applicable if you are planning to obtain informed consent: How do you plan to obtain informed consent? (i.e. the proposed process?):

# A10. What measures will be put in place to ensure confidentiality of personal data, where appropriate?

The children's pseudonyms (as previously allocated by Professor Lieven) will be used at all times. None of the videos will be played in public. None of the audio data will be played publicly at an internal seminar without the explicit permission of the project supervisor. If it becomes desirable to play any audio data at an external event such as a conference, then professor Lieven's consent will also be sought beforehand. No quotations from the data which could identify the participants or their families will be used. The data is stored on an external hard drive, which is kept in a locked filing cabinet in the student's shared office. No one else will be given access to the data without express permission from the student's supervisor and Professor Lieven. (Please see appended documents for further details of the measures taken to ensure confidentiality, as specified by Professor Lieven.)

A11. Will financial / in kind payments (other than reasonable expenses and compensation for time) be offered to participants? (Indicate how much and on what basis this has been decided)



- A12. Will the research involve the production of recorded media such as audio and/or video recordings?
  - YES NO X
- A12.1. This question is only applicable if you are planning to produce recorded media:How will you ensure that there is a clear agreement with participants as to how these recorded media may be stored, used and (if appropriate) destroyed?

Guidance fact-sheets on 'Safety and Well-Being', on 'Consent' and on 'Anonymity, Confidentiality and Data Protection' are at: www.shef.ac.uk/researchoffice/gov\_ethics\_grp/ethics/factsheets.html

These three fact-sheets have been updated in the light of new findings from three Social Research Association-funded research projects, which were published in 2008, that focused on the perspective of participants regarding their experience as participants **Title of Research Project:** Investigating Interactions between Word Juncture Development and the Acquisition of Syntax

I confirm my responsibility to deliver the research project in accordance with the University of Sheffield's policies and procedures, which include the University's '*Financial Regulations*', '*Good Research Practice Standards*' and the '*Ethics Policy for Research Involving Human Participants, Data and Tissue*' (Ethics Policy) and, where externally funded, with the terms and conditions of the research funder.

#### In signing this research ethics application form I am also confirming that:

- The form is accurate to the best of my knowledge and belief.
- The project will abide by the University's Ethics Policy.
- There is no potential material interest that may, or may appear to, impair the independence and objectivity of researchers conducting this project.
- Subject to the research being approved, I undertake to adhere to the project protocol without unagreed deviation and to comply with any conditions set out in the letter from the University ethics reviewers notifying me of this.
- I undertake to inform the ethics reviewers of significant changes to the protocol (by contacting my academic department's Ethics Administrator in the first instance).
- I am aware of my responsibility to be up to date and comply with the requirements of the law and relevant guidelines relating to security and confidentiality of personal data, including the need to register when necessary with the appropriate Data Protection Officer (within the University the Data Protection Officer is based in CiCS).
- I understand that the project, including research records and data, may be subject to inspection for audit purposes, if required in future.
- I understand that personal data about me as a researcher in this form will be held by those involved in the ethics review procedure (e.g. the Ethics Administrator and/or ethics reviewers) and that this will be managed according to Data Protection Act principles.
- If this is an application for a 'generic' project all the individual projects that fit under the generic project are compatible with this application.

• I understand that this project cannot be submitted for ethics approval in more than one department, and that if I wish to appeal against the decision made, this must be done through the original department.

<u>Name</u> of the Principal Investigator (or the name of the Supervisor if this is a postgraduate researcher project): Dr. Sara Howard

If this is a postgraduate researcher project insert the student's name here: Sarah Bryan

<u>Signature</u> of Principal Investigator (or the Supervisor): <u>Date</u>: ...

Email the completed application form and provide a signed, hard copy of 'Part B' to the Ethics Administrator (also enclose, if relevant, other documents).

### 1.2. Letter of Approval

### THE UNIVERSITY OF SHEFFIELD DEPARTMENT OF HUMAN COMMUNICATION SCIENCES RESEARCH ETHICS REVIEW PANEL

#### Proposer: Sarah Bryan

Project Title: Investigating interactions between word juncture development and the acquisition of syntax Date: 20<sup>th</sup> January 2010 Documents reviewed:

1. University research ethics application form

#### Dear Sarah

Thank you for the submission of your ethics application form to the departmental Ethics Review Panel. The proposal was read by three reviewers. The following <u>compulsory</u> <u>amendment</u> was required. This amendment does not require resubmission to the Ethics Panel: Section 7: Video data should not be viewed at home. Video data should only be used/accessed in private test rooms or offices within the department. Only research on copies of anonymised audio recordings and derived data (e.g., transcripts, score sheets) should be conducted outside the department (i.e., in the student's home).

Yours sincerely

Professor Rosemary Varley Chair Ethics Review Panel (Staff & PGR Applications)

### 1.3. Conditions of Use of the Dense Database

#### Elena Lieven

I agree to abide by the following conditions with regard to my use of the Dense Database:

(1) Confidentiality: no portions of the audiotapes and videos will be played publicly without the explicit permission of my dissertation supervisor. No quotations that identify the family in any way will be made in public, either spoken or written. The child's pseudonym will be used at all times.

(2) Security: the data will be kept securely at all times, and no-one other than myself will have access unless agreed by my supervisor.

(2) Use of the data: this will be used exclusively for the purposes agreed by my supervisor.

(3) Acknowledgement: in any written account of the data, proper acknowledgement will be made of the families, the Max Planck Institute (MPI-EVA) and the Max Planck Child Study Centre at Manchester

Name (printed): Sarah Bryan

5 Brill

Signature:

## Appendix Two

# Thomas's Realisations of Target Alveolar and Velar Plosives

## 2.1. Tables Showing Thomas's Realisations of Target Alveolar and Velar Plosives Sampled at Age 2;3;10

Table 1. Thomas's Realisations of Word-Initial Target Voiceless Alveolar Plosives at Age 2;3;10

Utterance	Realisation	Description of Phenomena
1. "Oh <u>dear</u> "	['d'i:ə]	Dentalised voiced alveolar plosive
2. " <u>Two</u> smarties please"	[t̪ŭ]	Dentalised alveolar plosive
3. "Poo's all <u>done</u> "	[ˈd̪ʷῦnʷ]	Dentalised voiced alveolar plosive,
		labialised throughout utterance
4. "xxx <u>doors</u> "	[ˈd̪ɔəs]	Dentalised voiced alveolar plosive
5. "What bow <u>doing</u> ?"	["duwĩ'n]	Retracted voiced alveolar plosive
6. "More <u>down</u> "	[d̪arũd̃]	Dentalised voiced alveolar plosive
7. "Yes I <u>do i</u> t"	[ˈduw]	Dentalised voiced alveolar plosive
8. "One a <u>time</u> "	[ˈt̪a'ĩm]	Dentalised voiceless alveolar plosive
9. "Oh this one a <u>time</u> "	[ˈkaˈiʲ]	Voiceless velar plosive

Table 2. Thomas's Realisations of Word-Initial Target Velar Plosives at Age 2;3;10.

Utterance	Realisation	Description of Phenomena
1. "A <u>cake</u> "	[ˈdeːɪʔt̪]	Voiced alveolar plosive
2. "A mess (.) <u>crumbs</u> "	[ˈgvə̃mz]	Voiced velar plosive
3. "I <u>can</u> "	[ặ \t̪ẩ̃n]	Dentalised voiced alveolar plosive.
		Falling tone
4. " <u>I can</u> "	[ặ √jã:n]	Voiced palatal plosive. Falling (sing-
		song) tone
5. "A big truck <u>coming</u> "	['t'ʌ̃mĩn]	Dentalised voiceless alveolar plosive
		despite final velar in preceding truck
6. "a@sc weed gone"	['wi? gab']	Voiced velar plosive

Note: Thomas did not produce any words with target word-medial alveolar plosives at age

#### Table 3. Thomas's Realisations of Word-Medial Target Velar Plosives at Age 2;3;10

Utterance	Realisation	Description of Phenomena
1. " <u>Ice-cream</u> bus"	[ə̃?nˈdĩm]	Voiced alveolar plosive

#### Table 4. Thomas's Realisations of Word-Final Target Alveolar Plosives at Age 2;3;10

Utterance	Realisation	Description of Phenomena
1. " <u>Spade</u> "	[ˈθpeːd̯]	Dentalised voiced alveolar plosive
2. "Yes I do <u>it</u> "	[rț]	Dentalised voiceless alveolar plosive
3. * "a@sc more <u>weed</u> "	['wiɪt̪]	Dentalised voiceless alveolar plosive
4. "No <u>shed</u> "	[ˈ∫ɛ̞çt̪]	Dentalised voiceless alveolar
		plosive, after voiceless palatal
		fricative, possibly caused by groping

#### Table 5. Thomas's Realisations of Word-Final Target Velar Plosives at Age 2;3;10

Utterance	Realisation	Description of Phenomena
1. "A <u>cake</u> "	['de:1?t]	Dentalised voiceless alveolar plosive
2. "A <u>truck in there</u> "	['tʰɒ?t̪]	Dentalised voiceless alveolar plosive
3. "Nin-nin a <u>big</u> bang"	['br:g]	Voiced velar plosive, no audible
		release
4. " <u>Fork</u> "	['fɔ?h]	Glottal plosive and fricative
5. "A big <u>truck coming</u> "	[tvunk]	Voiceless velar plosive. Open
		juncture preceding an initial alveolar
		in <i>coming</i>
6. "A <u>fork</u> "	[ <sub> </sub> Φɔ́k፟]	Very weak, quiet and slightly
		retracted voiceless velar plosive
7. " <u>Rake</u> "	['waɪt̯]	Dentalised voiceless alveolar plosive
8. " <u>Back a@sc shed</u> "	[bæ?]	Final glottal plosive

# 2.2. Tables showing Thomas's Realisations of Target Alveolar and Velar Plosives Sampled at Age 2;6;12

Utterance	Realisation	Description of Phenomena
1. "Police-car too"	['t̪ʰu]	Labialised dentalised voiceless
		alveolar plosive
2. "Together"	[ˈt̪uˈgɛˈβɛ]	Dentalised voiceless alveolar plosive
3. "Fireman Sam too"	[du]	Dentalised voiced alveolar plosive
4. " <u>Thomas</u> "	[ˈt̪ɒ̃məs̪ː]	Dentalised voiceless alveolar plosive
5. "Big <u>tail</u> , big paws"	[ˈtɐ̞ɪjə	Dentalised voiceless alveolar plosive
6. "There a@sc <u>dirty</u> "	[ˈd̪ҙt̪i]	Dentalised voiced alveolar plosive
7. "No <u>tummy</u> "	[ˈt̪ʰῦmɪ]	Aspirated voiceless alveolar plosive
8. " <u>Talk M</u> ummy a	[ˈd̪ɒ̯ʔ]	Dentalised voiced alveolar plosive
moment"		
9. * "And a@sc make the	['tʰaɯə]	Dentalised voiceless alveolar plosive
tower"		
10. "No <u>Daddy Rod</u> "	[dædı]	Retracted voiced alveolar plosive

Table 6. Thomas's Realisations of Word-Initial Tar	rget Alveolar Plosives at Age 2;6;12
--	--------------------------------------

### Table 7. Thomas's Realisations of Word-Initial Target Velar Plosives at Age 2;6;12

Utterance	Realisation	Description of Phenomena
1. " <u>Can't see it</u> "	[k̥ãʔ]	Weak voiceless velar plosive
2. "No ambulance a@sc	[tʰą̃m']	Labialised voiceless alveolar plosive
Fireman Sam come"		
3. "And a policeman and a	[dữmd]	Retracted voiced alveolar plosive
(babble) Fireman Sam		
come(d), ambulance"		
4. "xxx a@sc crispies"	[ˈpʊɪs̪pɪs:]	Voiceless bilabial plosive. Possible
		within-word consonant assimilation
5. "&na <u>Crunchy</u> "	[ˈgʋə̃n∫i]	Voiced velar plosive
6. "a@sc <u>cross</u> "	[ <sup>'</sup> duɒ's̯]	Retracted voiced alveolar plosive
7. " <u>Cross</u> "	['gubs:]	Voiced velar plosive
8. "Mummy <u>carry</u> "	[ˈt̪æwi]	Dentalised voiceless alveolar plosive
9. " <u>Climb a lot</u> "	[ˈklə̃m]	Voiceless velar plosive
10. "No <u>climb</u> a ladder"	[duaĩm]	Retracted voiceless alveolar plosive

Utterance	Realisation	Description of Phenomena
1. "Chasing after now"	['æaftɛ]	Dentalised voiceless alveolar plosive
2. "Police-car <u>harder</u> "	[ˈhad̪ə]	Dentalised voiced alveolar plosive
3. " <u>Harder</u> "	[ˈhadə]	Retracted voiced alveolar plosive
4. "No <u>Gordon</u> "	[ˈdɔdəႍn]	Voiced alveolar plosive. All consonants retracted
5. "There a@sc <u>dirty</u> "	[ˈd̪ҙt̪i]	Dentalised voiceless alveolar plosive
6. * "xxx <u>lady</u> "	['leɪd̪i]	Dentalised voiced alveolar plosive
7. "Medicine a@sc <u>hiding</u> There"	[ˈhaɪˈd̪ĩn]	Dentalised voiced alveolar plosive
8. "Make (it?) a <u>ladder</u> "	[læďð]	Dentalised voiced alveolar plosive
9. "One at <u>bottom</u> "	[bɒʔṯʷҙn]	Retracted voiceless alveolar plosive
10. "Pippin's <u>eating</u> "	[ˈit̪ĩĝ]	Dentalised voiceless alveolar plosive

Table 8. Thomas's Realisations of Word-Medial Target Alveolar Plosives at Age 2;6;12

#### Table 9. Thomas's Realisations of Word-Medial Target Velar Plosives at Age 2;6;12

Utterance	Realisation	Description of Phenomena
1. " <u>Police-car</u> too"	[(C)isda]	Dentalised voiced alveolar plosive
2. " <u>Together</u> "	['tu'gε'βε]	Voiced velar plosive
3. " <u>Abigail</u> Thomas a@sc	[ˈabədeɪjɪl]	Voiced alveolar plosive
bath"		
4. "≠ <u>blackcurrant</u> "	['(C,Vd)æ?'tuwənt]	Glottal stop followed by dentalised
		voiceless alveolar plosive
5. " <u>Making</u> slide"	['beı'kĩn]	Voiceless velar plosive
6. "No <u>scarecrow</u> on"	['∫kυεkυəυ]	Voiceless velar plosive
7. " <u>Looking</u> "	[lɒʔt̪ĩn]	Dentalised voiceless alveolar plosive
8. "No see <u>helicopter</u> "	[¦?ɛləˈkɒ?tə <sup>.</sup> ]	Voiceless velar plosive

Utterance	Realisation	Description of Phenomena
1. "Hands <u>bite</u> "	[ <sup>'</sup> bą̃ĩț]	Dentalised voiceless alveolar plosive
2. "Oh &sa <u>bit</u> hard"	[bɪț]	Weak dentalised voiceless alveolar
		plosive
3. "Not <u>get out</u> "	[d̪ɪʔ ˈdaːʊʔt̪]	Either glottal stop or resyllabified
		dentalised voiced alveolar plosive
4. "Not get <u>out</u> "	[d̪ɪʔ ˈdaːʊʔt̪]	Retracted voiceless alveolar plosive
5. "Watch <u>it</u> "	[ɪt̪]	Dentalised voiceless alveolar plosive
6. "≠ <u>blackcurrant</u> "	['(C,Vd)æ?'tuwənt]	Retracted voiceless alveolar plosive
7. " <u>Head"</u>	[ˈhɛ̈d̪]	Dentalised devoiced alveolar plosive
8. "Thomas <u>eat it</u> "	['i:d]	Retracted voiced alveolar plosive
9. "Mummy <u>sit up</u> "	[sıt ˈup]	Dentalised voiceless alveolar plosive
10. *"Front/flat"	['fwæ?t]	Retracted voiceless alveolar plosive

Table 10. Thomas's Realisations of Word-Final Target Alveolar Plosives at Age 2;6;12

Table 11. Thomas's Realisations of Word-Final Target Velar Plosives at Age 2;6;12

Utterance	Realisation	Description of Phenomena
1. "No <u>break</u> them"	['bwei?]	Glottal plosive
2. " <u>Big tail, big paws</u> "	[bɪj]	Weak voiced palatal fricative
3. " <u>Big</u> paws"	[big]]	Final voiced velar plosive with no audible release
4. "Oh a@sc &de <u>mark</u> "	['b̃ak]	Voiceless velar plosive
5. " <u>Pink</u> "	[pĩŋk]	Voiceless velar plosive
6. "(A)nother <u>pink</u> red"	[pĩn?]	Alveolar nasal and glottal stop
7. "Yuck/yack"	[ˈjæk̪]	Weak voiceless velar plosive
8. " <u>Talk</u> mummy a moment"	['ἀǫʔ]	Glottal stop
9. " <u>Make</u> a tower"	[(C,Vd)erk]	Voiceless velar plosive
10. " <u>Make a tower</u> "	[meɪt̪]	Dentalised voiceless alveolar plosive

# 2.3. Tables showing Thomas's Realisations of Target Alveolar and Velar Plosives Sampled at Age 2;9;15

Utterance	Realisation	Description of Phenomena
1. " <u>Down</u> the floor"	[d̪aῦn]	Dentalised voiced alveolar plosive
2. "I put them in the <u>digger</u> "	[ˈdɪgə]	Dentalised voiced alveolar plosive
3. "Take <u>(th)em</u> off mummy"	[kep]	Voiceless velar plosive
4. "Them <u>do</u> "	['du:]	Retracted voiced alveolar plosive
5. "Not <u>talk</u> "	['kʰək]	Voiceless velar plosive. Possible
		within-word consonant assimilation
6. "A letter in the <u>dustbin</u>	[d̪əs̪ˈbĩn]	Dentalised voiced alveolar plosive
wagon"		
7. "xxx <u>Two (.)</u> went in my	['t <sup>h</sup> u]	Aspirated voiceless alveolar plosive
tummy"		
8. "xxx Two (.) went in my	[ˈt̪ə̃mi]	Unaspirated retracted voiceless
tummy"		alveolar plosive
9. "The Thomas the Tank-	['t̪ʰɒ̃məs̪]	Dentalised voiceless alveolar plosive
Engine slipped"		
10. "The Thomas the Tank-	['tʰæ̃ŋkę̃ndʒį̃n]	Aspirated dentalised voiceless
Engine" slipped"		alveolar plosive

Table 12. Thomas's Realisations of Word-Initial Target Alveolar plosives at Age 2;9;15

Table 13. Thomas's Realisations of Word-Initial Target Velar Plosives at Age 2;9;15

Utterance	Realisation	Description of Phenomena
1. "Not <u>collect (th)</u> em"	$[k^{l} \varepsilon k^{t} t^{h}]$	Voiceless velar plosive with lateral
		release
2. "Course we <u>can</u> "	['kʰæ̃n]	Aspirated voiceless velar plosive
3. "Ah <u>can't</u> see here"	[ˈkʰãːnʔ]	Voiceless velar plosive
4. "Where's it <u>come</u> from"	[ˈkʰʊ̃m]	Voiceless velar plosive
5. "Your <u>cot</u> "	['k <sup>jh</sup> pth]	Voiceless velar plosive
6. "Go <u>crocodile</u> "	[ˈkuɒxədæəu]	Voiceless velar plosive
7. "I'm <u>coming</u> "	[ˈkʰʊ̃mĩŋg]	Voiceless velar plosive
8. " <u>Cab</u> "	['k <sup>h</sup> æb]	Voiceless velar plosive
9. "Ah Mummy got a ginger <u>cat</u> "	[k <sup>h</sup> æ <u>ts</u> ]	Voiceless velar plosive
10. "Ah! big <u>cuddle</u> "	['kʰɑːd̯jɛl]	Voiceless velar plosive

Utterance	Realisation	Description of Phenomena
1. " <u>Letters</u> "	[?eţəz]	Dentalised voiceless alveolar plosive
2. "Memo holders"	[ˈhəʊłdəz̯]	Voiced alveolar plosive
3. * "There <u>gentleman</u> "	[ˈ <del>j</del> ɛ̃nțĩmə̃n]	Dentalised voiceless alveolar plosive
4. "Hey! It's <u>Daddy's</u> jumper"	[ˈdædiːz̯]	Dentalised voiced alveolar plosive
5. "Ah! Big cuddle"	['kʰɑːd̯jɛl]	Dentalised voiced alveolar plosive
6. "Much much <u>better</u> now"	[ˈpɛ̈t̪ə]	Dentalised voiceless alveolar plosive
7. "Get this <u>plaster</u> "	['plæsᢩt <sup>w</sup> əٜ]	Labialised dentalised voiceless alveolar plosive
8. "Thomas <u>tidy up</u> this mess"	[ <sup>1</sup> tardijs]	Dentalised voiced alveolar plosive
9. "I'm hiding under here"	['haɪdīn]	Dentalised voiced alveolar plosive
10. "I'm hiding <u>under</u> here"	['ə̃nd̪ə]	Dentalised voiced alveolar plosive

Table 14. Thomas's Realisations of Word-Medial Target Alveolar Plosives at Age 2;9;15

Table 15. Thomas's Realisations of Word-Medial Target Velar Plosives at Age 2;9;15

Utterance	Realisation	Description of Phenomena
1., 2. and 3. " <u>Hokey-</u>	[ˌlęʊkʰiˈkɔkʰi]	Three word-medial voiceless velar
Cokey"		plosives, two aspirated, one
		unaspirated
4. "The Thomas the <u>tank-</u>	[ <sup>1</sup> tʰæ̃ŋkɛ̃ndʒĩ̃n]	Voiceless velar plosive
engine slipped"		
5. "Looking in my vest"	[ˈlʊkɪn]	Voiceless velar plosive
6. "Go <u>crocodile</u> "	[ˈkuɒxədæəu]	Voiceless velar fricative
7. " <u>Pillow-case</u> "	['thilətheiz]	Dentalised voiceless alveolar
		plosive. Possible within -word
		consonant assimilation
8. " <u>Pillow-case</u> "	['p <sup>h</sup> ıləuk <sup>h</sup> eıs]	Voiceless velar plosive
9. "Erm, a@sc my a	[ˈdɒk̥t̪ə]	Weak voiceless velar plosive
doctor"		
10. " <u>Okay</u> "	['əʊːkʰeɪ]	Voiceless velar plosive

Utterance	Realisation	Description of Phenomena
1. "Do they <u>fit</u> ?"	['fɪṯ]	Retracted voiceless alveolar plosive
2. " <u>It</u> is"	[ɪ <u>t</u> ]	Dentalised voiceless alveolar plosive
3. "Mummy, I'm gonna <u>put</u>	['p <sup>h</sup> ut]	Voiceless alveolar plosive
(th)em/it/her on that train"		
4. "It's <u>not</u> "	['nɒ <u>t</u> ]	Slightly retracted voiceless alveolar
		plosive
5. "Not <u>collect</u> them"	$[k^{l} \epsilon k^{\dagger} t^{h}]$	Aspirated voiceless alveolar plosive
6. "Grandad <u>brought</u> it"	['vɔpt̪]	Dentalised voiceless alveolar plosive
7. "xxx Two (.) <u>went in my</u>	[wĩnț <sup>h</sup> ]	Aspirated dentalised voiceless
tummy"		alveolar plosive
8. "It's put in my vest"	[vest]	Dentalised voiceless alveolar plosive
9. "Oh I missed it"	[mɪs̪d]	Dentalised voiced alveolar plosive
10. "I missed another <u>bit</u> "	[buɛt̯]	Dentalised voiceless alveolar plosive

Table 16. Thomas's Realisations of Word-Final Target Alveolar Plosives at Age 2;9;15

Table 17. Thomas's Realisations of Word-Final Target Velar Plosives at Age 2;9;15

Utterance	Realisation	Description of Phenomena
1. " <u>Look</u> "	[ˈlʊɒṯ]	Retracted voiceless alveolar plosive
2. "Not <u>talk</u> "	['k <sup>h</sup> ɔk]	Voiceless velar plosive
3. "Does it <u>work</u> "	[ <sup>'</sup> w3k <sup>j</sup> ]	Palatalised voiceless velar plosive
4. "The train-man <u>like</u> a	[laɪg]	Voiced velar plosive. Possibly
chocolate"		context-sensitive voicing
5. "Oh <u>thank you train</u>	['s̪æ̃ŋk <sup>j</sup> ]	Palatalised voiceless velar plosive
driver"		
6. " <u>Take</u> (th)em off mummy"	[kep]	Voiceless bilabial plosive, although
		initial voiceless velar plosive
7. " <u>Take</u> all these off"	[eɪt̪ʰ]	Dentalised voiceless alveolar plosive
8. "I'm coming"	[ˈkʰʊ̃mĩŋg]	Voiced velar plosive
9. * "No want stay in the	['dak <sup>j</sup> ]	Palatalised voiceless velar plosive
<u>dark</u> "		
10. " <u>Smoke</u> "	[ˈs̪məʊk]	Voiceless velar plosive

# 2.4. Tables showing Thomas's Realisations of Target Alveolar and Velar Plosives Sampled at Age 3;0;2

Utterance	Realisation	Description of Phenomena
1. * " <u>Daddy xxx</u> Thomas"	[ˈdæd̯i]	Retracted voiced alveolar plosive
2. * "Daddy xxx <u>Thomas</u> "	[ˈt̪ʰɒ̃məs̪]	Retracted voiceless alveolar plosive
3. "I <u>ticklemouse</u> "	[tıkł]	Dentalised voiceless alveolar plosive
4. " <u>Tell me</u> reason I saw it"	[ˈt̪ɛʊ]	Unaspirated dentalised voiceless
		alveolar plosive
5. " <u>Teddybear</u> "	[ˈt̪ʰɛd̪ibe:ɪ]	Weak retracted voiceless alveolar
		plosive
6. "There two snakes"	['t̪ʰu̯]	Aspirated dentalised voiceless
		alveolar plosive
7. * "And (a)bout () (a)bout	[ˈt̪uf ˈt̪us̪bvəʃ]	Dentalised voiceless alveolar plosive
() singing tooth toothbrush"		
8. "That falled a tower wall"	[ˈt̪aʊər]	Dentalised voiceless alveolar plosive
9. "Brush my teeth"	[ˈt̪i·f]	Dentalised voiceless alveolar plosive
10. * "Er er Purdie xxx she (.)	[ıkıkł]	Voiceless velar plosive. Within-word
just (4) <u>tickle my</u> ears"		consonant assimilation

#### Table 19. Thomas's Realisations of Word-Initial Target Velar Plosives at Age 3;0;2

Utterance	Realisation	Description of Phenomena
1. "I being a big <u>crocodile</u> under	[kuɒkʰəd̪aɪl]	Voiceless velar plosive
here"		
2. "Getting <u>cross</u> "	[ˈkwɒs̪]	Voiceless velar plosive, even though
		getting had final [n]. No assimilation
3. "Um I want crispies"	[ˈkʊïspɪz]	Voiceless velar plosive
4. "No no <u>cornflakes</u> no no milk"	['k <sup>h</sup> õfleıs]	Voiceless velar plosive
5. "You're go <u>catch</u> a train"	['kx <sup>h</sup> æt∫]	Voiceless velar plosive with
		affricated release
6. "It <u>coming</u> round a@sc round"	[ˈkʰῦmĩŋ]	Aspirated voiceless velar plosive
7. "I <u>can't</u> do it like that"	['k <sup>h</sup> an]	Aspirated voiceless velar plosive
8. "(A)bout <u>cuckoo</u> "	[ˈk̪kưʔkʰu]	Two successive retracted voiceless
		velar plosives (almost uvular)
9. " <u>Call fire-engine</u> "	[ku]	Unaspirated voiceless velar plosive
10. "It's <u>quiet</u> "	[ˈk̪xwaɪjəʔt̪]	Voiceless velar affricate

Utterance	Realisation	Description of Phenomena
1. * "Felix xxx like <u>water</u> "	[ˈwəʊt̪ə]	Dentalised voiceless alveolar plosive
2. " <u>Later</u> "	['leɪt̪ə]	Retracted voiceless alveolar plosive
3. " <u>Purdie</u> sit in that rock-a-tot"	['pʰǯd̯i]	Dentalised voiced alveolar plosive
4. "Purdie sit in that <u>rock-a-tot</u> "	['vɒkət̪ɒt]	Retracted voiceless alveolar plosive
5. "Um <u>sister</u> "	[ˈsɪs̪t̪ə]	Dentalised voiceless alveolar plosive
6. "Um <u>Sooty</u> bag"	['sutei]	Dentalised voiceless alveolar plosive
7. " <u>Getting</u> cross"	[gețin]	Dentalised voiceless alveolar plosive
8. * "Um the big other/older the	['bɒt̪ə̃m]	Dentalised voiceless alveolar plosive
(a)nother one say smack a@sc		
bottom"		
9. "A big post-lorry"	['phəustl'lbrei]	Voiceless alveolar plosive with
		lateral release. Coarticulation prior
		to [1]
10. "This is a <u>plaster</u> "	['plæst̪ə]	Dentalised voiceless alveolar plosive

Table 21. Thomas's Realisations of Word-Medial Target Velar Plosives at Age 3;0;2

Utterance	Realisation	Description of Phenomena
1. "I being a big <u>crocodile</u> under	[ˈkuɒkʰəd[aɪl]	Voiceless velar plosive
here"		
2. "That's more like <u>chicken</u> like	[ˈtʃʰɪkʰĩn]	Aspirated voiceless velar plosive
that like that friend chicken"		
3. "Purdie sit in that <u>rock-a-tot</u> "	[ˈvɒkət̪ɒt]	Voiceless velar plosive
4. "And it comes out <u>again</u> "	[əˈgɛ̃n]	Voiced velar plosive
5. "Up a@sc <u>rocket</u> and down	['vɒk <sup>j</sup> ık <sup>j</sup> `]	Palatalised voiceless velar plosive
like a rain"		
6. "(A)bout <u>cuckoo</u> "	[ˈk̪kʊʔk̪ʰu]	Strongly aspirated retracted voiceless
		velar plosive (almost uvular)
7. " <u>Becca</u> "	ʻ'b̃ękʰə]	Aspirated voiceless velar plosive
8. * "Er er Purdie xxx she (.) just	[ıkıkł]	Voiceless velar plosive
(4) <u>tickle my</u> ears"		
9. * "My er Molly er Felix more	['da:əkʰə̯ʊk]	Retracted voiceless velar plosive,
like <u>diet-coke</u> "		almost uvular

Utterance	Realisation	Description of Phenomena
1. "My <u>favourite</u> "	['feı⊙'ʋət]	Voiceless alveolar plosive
2. "Purdie <u>sit</u> in that rock-a-tot"	[ˈsɪt̪]	Dentalised voiceless alveolar plosive
3. "Purdie sit in that <u>rock-a-tot</u> "	['vɒkəṯɒt]	Voiceless alveolar plosive
4. "It's <u>hot</u> "	['hɒ'?ṯ]	Dentalised voiceless alveolar plosive
5. "You're your, your say	[ˈbʊɪlijə̃nṯə̯̆]	Retracted voiceless alveolar plosive
<u>brilliant a train"</u>		
6. " <u>Spilt</u> "	[ˈspɪʊt̪]	Weak retracted voiceless alveolar
		plosive
7. "Having a nice <u>rest</u> "	['vɛs̪t]	Weak dentalised voiceless alveolar
		plosive
8. "Yes <u>it</u> is"	[ïț]	Dentalised voiceless alveolar plosive
9. "Up a <u>rocket</u> and down like	['vɒkʲɪk <sup>j</sup> `]	Palatalised voiceless velar plosive.
a@sc rain"		Possible within-word consonant
		assimilation
10. * "I just (.) er need a@sc <u>put</u>	[p <sup>h</sup> ud]	Retracted voiced alveolar plosive.
it here"		Possibly context-sensitive voicing

#### Table 22. Thomas's Realisations of Word-Final Target Alveolar Plosives at Age 3;0;2

### Table 23. Thomas's Realisations of Word-Final Target Velar Plosives at Age 3;0;2

Utterance	Realisation	Description of Phenomena
1. * "Um um it's made my <u>cheek</u>	[t∫ikٍ <sup>h</sup> ]	Weak, but aspirated voiceless velar
sore"		plosive. Only just audibly released
2. "Big <u>pig</u> "	['p <sup>h</sup> ɪg]	Voiced velar plosive
3. "Big large <u>snake</u> "	[ <sup>l</sup> sne1k <sup>j</sup> ]	Palatalised voiceless velar plosive
4. * "xxx <u>Drink</u> it xxx"	[ˈduĩŋk <sup>j</sup> ]	Palatalised voiceless velar plosive
5. "It's more <u>like doing sick</u> "	[laɪk]	Voiceless velar plosive with no
		audible release
6. "It's more like doing sick"	[ˈsɪʔk <sup>j</sup> ]	Palatalised voiceless velar plosive
7. * "Um the big other/older the	[smæt̪ə]	Dentalised voiceless alveolar
(a)nother one say smack a@sc		plosive. Possible consonant
bottom"		assimilation with <i>bottom</i> .
8. "I need draw a big large	[ˈs̪neɪtʃ]	Voiceless post-alveolar affricate
snake"		
9. " <u>Look</u> at that snake there"	[lʊ̃k]	Voiceless velar plosive
10. "You a you be a front, Julian	['ba'q <sup>h</sup> ]	Voiceless uvular plosive
be a <u>back</u> "		

# 2.5. Tables Showing Thomas's Realisations of Target Alveolar and Velar Plosives Sampled at Age 3;3;3

Utterance	Realisation	Description of Phenomena
1. "And I reach something	[ˈd̪aữ]	Dentalised voiced alveolar plosive
down, mightn't I?"		
2. " <u>Daddy</u> "	[ˈdædiː]	Dentalised voiced alveolar plosive
3. * " <u>Don't know</u> "	[ˈd̪əῦnʔ]	Dentalised voiced alveolar plosive
4. "Oh (noise) I <u>didn't</u> "	[ˈd̪ɪd̪ə̃nʔt]	Dentalised voiced alveolar plosive
5. "I <u>do</u> "	[ˈd̪u]	Dentalised voiced alveolar plosive
6. "Oh I want <u>to</u> "	[ <u>t</u> ü]	Retracted voiceless alveolar plosive
7. "Let's do a <u>top</u> ones"	['tʰp?]	Aspirated voiceless alveolar plosive
8. "I just seen on the <u>telly</u> "	['tɛleɪ]	Dentalised voiceless alveolar plosive
9. "Big <u>tin</u> "	[ <sup>1</sup> țĩn]	Dentalised voiceless alveolar plosive
10. Hmm <u>dear</u> "	[ˈdïə]	Voiced alveolar plosive

Table 24. Thomas's Realisations of Word-Initial Target Alveolar Plosives at Age 3;3;3

Table 25. Thomas's Realisations of Word-Initial Target Velar Plosives at Age 3;3;3

Utterance	Realisation	Description of Phenomena
1. "What <u>cupboard</u> ?"	[ˈkʰʊbəˈ]	Aspirated voiceless velar plosive.
		Maybe also final consonant, but
		inaudible owing to extraneous noise
2. " <u>Can</u> of soup"	[ķæ̃n]	Weak voiceless velar plosive
3. "(Be) <u>cause I</u> can't get	[k <sup>h</sup> ɒs]	Aspirated voiceless velar plosive
this bit out"		
4. "(Be)cause I <u>can't g</u> et	[ˈkʰãŋʔ]	Aspirated voiceless velar plosive
this bit out"		
5. "I'm very <u>cross</u> "	['kubs]	Voiceless velar plosive
6. " <u>Coffee-bags</u> "	[ˈt̪ɒfiˈbægz]	Dentalised voiceless alveolar plosive
7. "Been to <u>collect</u> "	[ˈkʰlɛk་t̪]	Voiceless velar plosive with lateral
		release
8. "I <u>come</u> back for more	[ˈkʰ̃ʌm]	Aspirated voiceless velar plosive
litter"		
9. " <u>Crispies</u> "	[ˈkwïspiz]	Voiceless velar plosive
10. * "Just putting it near	[ˈkʰɛs̯]	Aspirated voiceless velar plosive
door <u>case I</u> need it"		

Utterance	Realisation	Description of Phenomena
1. * "Go on my <u>computer</u> "	[k <sup>h</sup> õm'pjuṯ <sup>hw</sup> ặ̆]	Aspirated, labialised, retracted
		voiceless alveolar plosive
2. "I just, I will play um, I	[kʰɒ̃m'pju̯tə]	Dentalised voiceless alveolar plosive
need my computer after that"		
3. "I just, I will play um, I	[æft̪ə]	Dentalised voiceless alveolar plosive
need my computer after that"		
4. "Farty-pants has just been in	[ˈbɒt̪ə̃m]	Dentalised voiceless alveolar plosive
your <u>bottom</u> "		
5. "And I reach something	[ˈmaɪt̪ə̃n]	Dentalised voiceless alveolar plosive
down, <u>mightn't I</u> ?"		
6. "Farty-pants has just been in	['fați'pæn <u>ţş</u> ]	Dentalised voiceless alveolar plosive
your bottom"		
7. "(To) <u>matoes</u> "	[ˈmɑtəʊs]	Voiceless alveolar plosive
8. "Look! I <u>bitten off his arm</u> "	[ˈßɪt̪ʰə̯̃n]	Aspirated dentalised voiceless
		alveolar plosive
9. "I come back for more	[ˈlɪt̪ə]	Dentalised voiceless alveolar plosive
litter"		
10. " <u>Smarties</u> "	[ˈsmɑᢩːt̪iˈz̊	Dentalised voiceless alveolar plosive

### Table 26. Thomas's Realisations of Word-Medial Target Alveolar Plosives at Age 3;3;3

Table 27. Thomas's Realisations of Word-Medial Target Velar Plosives at Age 3;3;3

Utterance	Realisation	Description of Phenomena
1. * "Er got my	[ˈfīngɪ]	Voiced velar plosive
finger/fingers/thingy stuck in		
the (.) in the bin"		
2. "Mmm! <u>Ice-cream</u> "	[aĭ <sup>'</sup> kwiə̃m]	Voiceless velar plosive
3. "We don't need a	[ˈmaʲɪkʊəfəῦn]	Voiceless velar plosive
microphone do we?"		
4. " <u>Chocolate</u> "	[ˈtʃpx:lɪ?]	Voiceless velar fricative
5. " <u>Cocoa</u> Powder"	[ˈkʰəʊkəʊ]	Voiceless velar plosive
6. " <u>Drinking</u> chocolate"	[ˈt̪ʋĩŋkʰlĩŋ]	Voiceless velar plosive with lateral
		release
7. "Drinking chocolate"	[ˈdvĩŋˈkʰĩŋ]	Voiceless velar plosive
8. "Drinking chocolate"	[ˈt∫ɒk¹lı?]	Voiceless velar plosive with lateral
		release
9. "(Be)cause I broken it"	[ˈbwɒ·kʰą̃n]	Aspirated voiceless velar plosive
10. "I/I'm making some orange	[ˈme̪ɪt̪ĩn]	Dentalised voiceless alveolar plosive
juice"		

Utterance	Realisation	Description of Phenomena
1. "I <u>want a</u> larm-bell"	[wõnț <sup>1</sup> ]	Dentalised voiceless alveolar plosive
		with lateral release
2. "I can't get this one <u>out</u> "	['aũṯ]	Retracted voiceless alveolar plosive
3. "No we <u>don't</u> "	[ˈd̪ɛῦnț]	Dentalised voiceless alveolar plosive
4. "Oh (noise) I <u>didn't</u> "	[ˈd̪ɪd̪ə̃n?t]	Voiceless alveolar plosive
5. "Drinking chocolate"	[ˈtʃpkłət̪]	Dentalised voiceless alveolar plosive
6. "Bread <u>what</u> ?"	['wʌ?ţ]	Dentalised voiceless alveolar plosive
7. "I think it's a sweet"	[ˈswïːt̪]	Dentalised voiceless alveolar plosive
8. "What is it?"	[Iţh]	Aspirated dentalised voiceless
		alveolar plosive
9. "I put (th)em on stairs"	[put]	Unaspirated dentalised voiceless
		alveolar plosive
10. "Been to <u>collect</u> "	[ˈkʰlɛk]t̪]	Dentalised voiceless alveolar plosive

Table 28. Thomas's Realisations of Word-Final Target Alveolar Plosives at Age 3;3;3

### Table 29. Thomas's Realisations of Word-Final Target Velar Plosives at Age 3;3;3

Utterance	Realisation	Description of Phenomena
1. * " <u>Look</u> what/at I built"	[lʊk]	Voiceless velar plosive
2. "Er got my finger/thingy	[ˈs̪tukʰ]	Voiceless velar plosive
stuck in the (.) in the bin"		
3. "I put some <u>music on</u> "	[ˈmjuzɪk]	Voiceless velar plosive
4. "To <u>milk</u> "	[ˈmĩῦk]	Voiceless velar plosive
5. "I <u>think</u> it's a sweet"	[ˈfĩnķ]	Voiceless velar plosive with a degree
		of context-sensitive voicing
6. " <u>Big tin</u> "	[bɪgʻ]	Voiced velar plosive with no audible
		release
7. "I just putting (th)em	[ˈbæʔk <sup>j</sup> ]	Palatalised voiceless velar plosive
<u>back</u> "		
8. "What's the <u>flask</u> "	['flæsk]	Voiceless velar plosive
9. "Just turn this <u>black</u>	[ˈblæk]]	Voiceless velar plosive with no
thing on?"		audible release
10. "I <u>take</u> it"	[t̪eɪk <sup>xj</sup> ]	Palatalised voiceless velar plosive
		with affricated release

# 2.6. Tables showing Thomas's Realisations of Target Alveolar and Velar Plosives Sampled at Age 3;6;6

Utterance	Realisation	Description of Phenomena
1. "Goes one two blast-off"	[ <u>t</u> u]	Retracted voiceless alveolar plosive
2. "But I won't just won't	[ˈt̪ɛl]]	Weakly aspirated dentalised
tell him off and go ah!"		voiceless alveolar plosive
3. "I want to get that one	[t̪ʰu̥ː]	Aspirated dentalised voiceless
off"		alveolar plosive
4. * "No not on the top"	['tʰɒp']	Aspirated retracted voiceless
		alveolar plosive
5. "Captain <u>Thomas</u> ready to	[ť̃̃̃məs]	Alveolar ejective
launch"		
6. * " <u>Teletubbies</u> now can I	[ˈt̪ɛl̪iˈt̪'ɒbɪz̯]	Weak dentalised voiceless alveolar
watch?"		plosive
7. "I wish I was watching	['tʰə̯li]	Aspirated voiceless alveolar plosive
telly and nobody (di)sturb		
me"		
8. "And you you can/could	['tʰɛ̃n]	Aspirated dentalised voiceless
just (pre) <u>tend</u> you're		alveolar plosive
naughty"		
9. "See what <u>time</u> it is in the	[ṯ <sup>h</sup> ạĩm]	Aspirated dentalised voiceless
&wur (.) in the shops"		alveolar plosive
10. "Daddy, Mummy take a	['tʰeɪk]	Aspirated dentalised voiceless
(e)quipment/equipment		alveolar plosive
off"		

#### Table 30. Thomas's Realisations of Word-Initial Target Alveolar Plosives at Age 3;6;2

Utterance	Realisation	Description of Phenomena
1. * "Buzz Lightyear doesn't xxx	[ˈkʰɪʊw]	Aspirated voiceless velar plosive
<u>kill</u> "		
2. " <u>Careful</u> "	[ˈkʰě̃əfð]	Aspirated voiceless velar plosive.
		Putting on funny voice
3. "It <u>can fly</u> on its own, but it	['kʰæ̃n]	Aspirated voiceless velar plosive
doesn't fit in there" "		
4. " <u>Captain Thomas ready to launch</u> "	['k <sup>h</sup> ʌp <sup>¬</sup> t̪n]	Aspirated voiceless velar plosive
5. "I <u>can't</u> tell you about it"	[k <sup>h</sup> ə'hãnț]	Aspirated voiceless velar plosive
6. * "I say don't <u>care</u> "	['k <sup>jh</sup> ɛː]	Aspirated palatalised voiceless velar
		plosive
7. * "I'm coming with my police-	[k <sup>h</sup> ữmĩn]	Aspirated voiceless velar plosive
helmet"		
8. "I got a watch and just (pre)tend	['k <sup>jh</sup> iz]	Strongly aspirated palatalised
these/it's my keys"		voiceless velar plosive
9. "And I will <u>catch you up and lock</u>	['k <sup>h</sup> æt∫]	Aspirated voiceless velar plosive
you again"		
10. "(Be) <u>cause y</u> ou're being	[k <sup>h</sup> bʒ]	Aspirated voiceless velar plosive
naughty"		

Table 31. Thomas's Realisations of Word-Initial Target Velar Plosives at Age 3;6;2

Table 32. Thomas's Realisations of Word-Medial Target Alveolar Plosives at Age 3;6;2

Utterance	Realisation	Description of Phenomena
1. "Goes one two <u>blast-off</u> "	['blæstof]	Dentalised voiceless alveolar plosive
2. "I <u>wanted that one</u> "	['wõnțıd]	Dentalised voiceless alveolar plosive
3. " <u>Captain</u> Thomas ready to launch"	['khap]tn]	Unaspirated retracted voiceless
		alveolar plosive
4. " <u>Teletubbies</u> now can I watch?"	['t̪ɛl̪i't̯'ɒbız]	Weak dentalised voiceless alveolar
		plosive
5. "(Be)cause you're being <u>naughty</u> "	['noți]	Dentalised voiceless alveolar plosive
6. "Oh look! There's <u>letters</u> . We	['lɛt̪ə̆ʒ]	Dentalised voiceless alveolar plosive
don't want those do we?"		
7. "Two scary monsters going up to	['mɒ̃nst̪əz]	Dentalised voiceless alveolar plosive
fright daddy and Purdie"		
8. "You can put that one out near	['but <sup>h</sup> ə̃nz]	Aspirated voiceless alveolar plosive
buttons, I can put it out near telly"		
9. "Just look <u>after my</u> watch and now	[æfţm]	Weak dentalised voiceless alveolar
I just gonna borrow your key"		plosive
10. "Now they gone <u>upstairs</u> "	[upstɛːz]	Dentalised voiceless alveolar plosive

Utterance	Realisation	Description of Phenomena
1. "For the space <u>rocket</u> "	['vɒkɪ?]	Voiceless velar plosive
2. "And you know what I'm	['meɪk <sup>j</sup> ĩŋg]	Palatalised voiceless velar plosive
making"		
3. " <u>Monkeys</u> "	[ˈmῦŋk <sup>jh</sup> ɪẓ]	Aspirated palatalised voiceless velar
		plosive
4. "And I tickle <u>tickle</u> you all	[ˈtɪəkɫ]	Voiceless velar plosive
down"		
5. "Look! <u>Ice-cream!</u> "	[ˈeɪs̯kəɹĩm]	Voiceless velar plosive
6. "Now I'm just a <u>burglar</u> "	[ˈbɜgələ]	Voiced velar plosive
7. "Smacky/smacking bottoms"	['snæk <sup>j</sup> i]	Palatalised voiceless velar plosive
8. "You think it's <u>chocolate</u> sweet"	[ˈtʃɒklə?]	Voiceless velar plosive
9. "What's happening a@sc	[ <sup>'</sup> wɒk̥mæn]	Weak voiceless velar plosive
walkman"		
10. "So we lock you all up and you	[əˈgaĩn]	Voiced velar plosive
can't go anywhere <u>again</u> or		
(a)gain (five times)"		

Table 33. Thomas's Realisations of Word-Medial Target Velar Plosives at Age 3;6;2

Table 34. Thomas's Realisations of Word-Final Target Alveolar Plosives at Age 3;6;2

Utterance	Realisation	Description of Phenomena
1. "Buzz Lightyear's (.) flies a	['duznth]	Aspirated dentalised voiceless
rocket <u>doesn't</u> he"		alveolar plosive
2. " <u>First</u> , I/I'm going to pick my	[ˈfҙsᢩt]	Weak voiceless alveolar plosive
back up and I won't be long"		
3. "You know <u>what</u> "	['wɒ:?t̪]	Dentalised voiceless alveolar plosive
4. "It can fly on its own, but it	[fɪt̪]	Aspirated voiceless alveolar plosive
doesn't <u>fit</u> in there"		
5. "No he <u>isn't</u> , he's real"	['ıznt]	Dentalised voiceless alveolar plosive
6. "He got little xxx (makes	[gɒt̪]	Dentalised voiceless alveolar plosive
noise)"		
7. "Um just there"	[ˈdu̯st̪]	Dentalised voiceless alveolar plosive
8. "Want to get another one to <u>put</u>	[pur]	Alveolar tap
on my ears"		
9. "I <u>can't</u> tell you about it"	[k <sup>h</sup> ə'hãnț]	Weak retracted voiceless alveolar
		plosive
10. "But they/they're <u>not</u> on/in my	['nɒt]	Voiceless alveolar plosive
pants"		

Utterance	Realisation	Description of Phenomena
1. "First, I/I'm going to	[pɪk <sup>-</sup> ]	Voiceless velar plosive with no
<u>pick</u> my back up and I		audible release
won't be long"		
2. "First, I/I'm going to	['bæk]	Voiceless velar plosive
pick my <u>back up</u> and I		
won't be long"		
3. " <u>Look</u> at Buzz	[ˈlʊk]	Voiceless velar plosive
Lightyear"		
4. "I want to <u>hook on</u> "	[hʊˈk]	Voiceless velar plosive
5. "Um this <u>book</u> "	[ˈþ̥ʊk]	Voiceless velar plosive
6. " <u>Quick</u> "	[ˈkwɪk <sup>j</sup> ]	Palatalised voiceless velar plosive
7. "Daddy, Mummy, take a	['t[ <sup>h</sup> eɪk]	Voiceless velar plosive
(e)quipment/equipment		
off"		
8. "Now I want my	[dʒ.ĩŋk <sup>h</sup> ]	Aspirated voiceless velar plosive
(a)nother <u>drink</u> "		
9. "All like tight <u>like this</u> "	[lar?k]	Voiceless velar plosive
10. * "I <u>think I</u> 'm happy	[ˈfīnk]	Voiceless velar plosive
with a yellow one"		

Table 35. Thomas's Realisations of Word-Final Target Velar Plosives at Age 3;6;2

# 2.7. Tables Showing Thomas's Realisations of Target Alveolar and Velar Plosives Sampled at Age 3;9;3

Table 36. Thomas's Realisations of Word-Initial Target Voiceless Alveolar Plosives at Age 3;9;3

Utterance	Realisation	Description of Phenomena
1. "Play together later"	[ˈtu̯gɛvə]	Dentalised voiceless alveolar plosive
2. " <u>Telly</u> "	['tʰɛʎi]	Aspirated dentalised voiceless
		alveolar plosive
3. "And now another one for	[ <sup>ı</sup> ṯ̃p̃məs॒s]	Retracted voiceless alveolar plosive
<u>Thomas</u> "		
4. "You can look as well (.) you	[tų]	Voiceless alveolar plosive
want to"		
5. "Mummy, () <u>talking</u> about (.)	['t̪ɔkʰĩd̃]	Dentalised voiceless alveolar plosive
fire-extinguishers and fire-ropes"		
6. "That's what I was <u>tidying up</u> "	[ˈt̪æːɪd̪ijĩŋg]	Dentalised voiceless alveolar plosive
7. * "Excuse I'm too busy putting	[tʰu]	Aspirated dentalised voiceless
the fire out"		alveolar plosive
8. "Mummy, you want to tell	['t̪ɛʊ]	Dentalised voiceless alveolar plosive
something to the fireman?"		
9. "(Be)cause I'm going on holiday	[t <sup>h</sup> ə'de1]	Aspirated voiceless alveolar plosive
today"		
10. "She's coming/come back	[tʰə̃mʌrləʊ]	Aspirated voiceless alveolar plosive
tomorrow, because she said she		
would/will bring cakes"		

Utterance	Realisation	Description of Phenomena
1. "Purdie <u>could</u> be nothing"	[x <sup>j</sup> ʊ]	Palatalised voiceless velar fricative
2. * "Is the <u>crane</u> well up?"	[ˈk.ɪeĩn]	Voiceless velar plosive
3. * "You know xxx you know	[kxæn]	Aspirated voiceless velar affricate
what I <u>can</u> see?"		
4. " <u>Coming</u> "	[ˈk <sup>jh</sup> ą̃ːˈmĩŋg]	Aspirated palatalised voiceless velar
	-	plosive
5. "Stop <u>cars</u> coming"	$[k^h qs]$	Aspirated voiceless velar plosive
6. "No (be) <u>cause</u> he left (th)em	[k <sup>h</sup> əz]	Aspirated voiceless velar plosive
there just"		
7. "You know why I was going	[ˈkwɪk <sup>l</sup> li]	Voiceless velar plosive
so <u>quickly</u> ?"		
8. "I <u>can't</u> eat that one	['kʰä̈n?]	Aspirated voiceless velar plosive
(be)cause it's all soggy"		
9. "She's coming/come back	['k <sup>jh</sup> eɪks̯]	Aspirated, palatalised voiceless velar
tomorrow, because he said		plosive
she would/will bring cakes"		
10. "This could be my secret	[ˈkʊd̥ə̃nt̪ʰ]	Unaspirated voiceless velar plosive.
present couldn't it"		Generally hyponasal throughout
		utterance, possibly due to a cold

### Table 37. Thomas's Realisations of Word-Initial Target Velar Plosives at Age 3;9;3

Utterance	Realisation	Description of Phenomena
1. "Not <u>eating</u> it"	[ˈit̪ɪŋ]	Dentalised voiceless alveolar
		plosive
2. "I'll have it <u>later on</u> "	['leɪt̪ʰəʊ]	Aspirated dentalised voiceless
		alveolar plosive
3. "A fat <u>bottom</u> "	[ˈbɒֽt̪ʰə̃m]	Aspirated dentalised voiceless
		alveolar plosive
4. "Go <u>upstairs</u> puss"	[pp'ste:z]	Dentalised voiceless alveolar
		plosive
5. "Oh! What a little <u>letter</u> "	[ˈlɛt̪ə]	Dentalised voiceless alveolar
		plosive
6. " <u>Just</u> a little one"	[ˈdʒųʃt̪]	Dentalised voiceless alveolar
		plosive
7. * "And you was in bed on	[ˈjɛst̪əd̪eɪ]	Dentalised voiceless alveolar
yesterday morning"		plosive
8. "Mummy you'd/you <u>better be</u>	[ĕıăd]	Alveolar tap
inside having your breakfast"		
9. * "Excuse I'm too busy <u>putting</u>	[pudīn]	Dentalised voiced alveolar plosive.
the fire out"		Context-sensitive voicing
10. "It's got all water on it"	['wəṯʰər]	Aspirated, retracted voiceless velar
		plosive

### Table 38. Thomas's Realisations of Word-Medial Target Alveolar Plosives at Age 3;9;3

Utterance	Realisation	Description of Phenomena
1. " <u>Walking</u> down the main street"	['woukĩn]	Voiceless velar plosive
2. " <u>Okay</u> "	[ðkxei]	Voiceless velar affricate
3. "Mummy, (4.) <u>talking</u> about (.)	[ˈt̪ɔkʰĩd̃]	Aspirated voiceless velar plosive
fire-extinguishers and fire-ropes"		
4. * "You're having your <u>breakfast</u>	[ˈb̪rɛk ͡ fəs]	Voiceless velar plosive with no
didn't you?"		audible release
5. * "Mummy go in circles, you	[ˈs̥ɜkll̃zˈ]	Voiceless velar plosive with lateral
don't want to (.) see what the		release. Coarticulation
fireman's doing"		
6. * " <u>Excuse I</u> 'm too busy putting	[ɪksˈkju]	Voiceless velar plosive
the fire out"		
7. "You know why I was going so	['kwik <sup>1</sup> lei]	Voiceless velar plosive with lateral
quickly?"		release
8. "Been a good boy on holiday	['su?k <sup>j</sup> eɪs]	Palatalised voiceless velar plosive
xxx that <u>suitcase</u> "		
9 and 10. "(Be)cause I got a walky-	[ˌwɔʊk <sup>jh</sup> i't̪ <sup>h</sup> ɔk <sup>j</sup> i]	Two palatalised voiceless velar
talky"		plosives. Coarticulation

### Table 39. Thomas's Realisations of Word-Medial Target Velar Plosives at Age 3;9;3

### Table 40. Thomas's Realisations of Word-Final Target Alveolar Plosives at Age 3;9;3

Utterance	Realisation	Description of Phenomena
1. * "I didn't, but I saw her	[ˈdrd̯ənt̪]	Dentalised voiceless alveolar plosive
treading on dragons"		
2. " <u>Not</u> eating it"	[nɒt]	Voiceless alveolar plosive
3. "(Be)cause I just don't <u>want</u>	['ẅ́ɒnt̪]	Dentalised voiceless alveolar plosive
it"		
4. * "But that could be down the	[ˈkʊdə̃nt̪ʰ]	Aspirated dentalised voiceless
road <u>couldn't</u> it?"		alveolar plosive
5. * "But that could be down the	[ɪt̪]	Dentalised voiceless alveolar plosive
road couldn't <u>it</u> ?"		
6. "Walking down the main	[ˈs̪tɹiʔt̪]	Dentalised voiceless alveolar plosive
street"		
7. "Mummy, () talking <u>about</u>	[əˈbaʊʔt̪]	Dentalised voiceless alveolar plosive
(.) fire-extinguishers and fire-		
ropes"		
8. " <u>Just a little one</u> "	[ˈdʒựʃt̪]	Dentalised voiceless alveolar plosive
9. "That's what I was tidying up"	[wəd̯]	Dentalised voiced alveolar plosive.
		Apparent context-sensitive voicing
10. "And <u>that</u> "	[(C,Vd)æ?t]	Voiceless alveolar plosive. Creaky
		voice throughout utterance

#### Table 41. Thomas's Realisations of Word-Final Target Velar Plosives at Age 3;9;3

Utterance	Realisation	Description of Phenomena
1. " <u>Jake</u> "	['dʒe:1k <sup>jh</sup> ]	Aspirated palatalised voiceless
		velar plosive
2. "You can <u>look</u> as well"	['lʊk]	Voiceless velar plosive
3. * "And you could hear the sounds and	[ˈθĩŋk]	Voiceless velar plosive
you think it's ambulance don't you"		
4. "A big transporter <u>truck</u> "	[ˈtʃvʊk]	Voiceless velar plosive
5. "I just sleep/sleeping/sleep in there for	['Đ̃æ'k <sup>x</sup> ]	Voiceless velar plosive with
one day and then I come <u>back</u> "		slight affricated release
6. "It's an <u>alarm clock</u> "	[ə̥ˈlậ̃mˈkʰlɒkx]	Voiceless velar plosive with
		slight affricated release
7. "Mummy, you look out of your big	['bɪg]	Voiced velar plosive
window bedroom and say "wowee!" "		
8. "Here's somebody stuck up here"	[ˈs̪t̪ʊ̯kʰ]	Aspirated voiceless velar
		plosive

# 2.8. Tables Showing Thomas's Realisations of Target Alveolar and Velar Plosives Sampled at Age 4;0;7

Utterance	Realisation	Description of Phenomena
1. "Look what's happening	[t <sup>h</sup> ə̃]	Aspirated voiceless alveolar plosive
to my house"		
2. "Do you know how <u>tall</u>	['t̪ʰəl]	Aspirated dentalised voiceless
it goes?"		alveolar plosive
3. "Every <u>time</u> I was	[țʰã]	Aspirated dentalised voiceless
hungry, I could break off		alveolar plosive
the house"		
4. "What would a <u>toilet</u> be	['t̪ʰɔrːləʔ]	Aspirated dentalised voiceless
like if you flush it?"		alveolar plosive
5. "And coming out of the	['tʰæp`]	Aspirated dentalised voiceless
tap_might be bags of/like		alveolar plosive
soft cheese"		
6. "I hope it does <u>tickle</u> "	[ˈdɪkl]	Dentalised voiced alveolar plosive,
		possibly assimilating with [d] in
		does
7. "Crawling under the	[ˈt̪eɪbəł]	Unaspirated dentalised voiceless
table"		alveolar plosive
8. "But, but I want to talk	[tək]	Unaspirated voiceless alveolar
all about the building		plosive
site"		
9. "Mum, I want you to tell	['t̪ɛʊ]	Dentalised voiceless alveolar plosive
that story again"		
10. * "xxx could turn it	['ț̃ŝn]	Aspirated dentalised voiceless
into a curly cable"		alveolar plosive

#### Table 42. Thomas's Realisations of Word-Initial Target Alveolar Plosives at Age 4;0;7

Utterance	Realisation	Description of Phenomena
1. " <u>Can</u> you help us?"	[kẵn]	Unaspirated voiceless velar plosive
2. "(Be)cause I'm	[kuə̃m]	Unaspirated voiceless velar plosive
(pre)tending"		
3. "I am <u>quite deaf</u> "	[ˈkwaɪʔ]	Voiceless velar plosive
4. * "The roof <u>come</u> off	[k <sup>h</sup> ữm]	Aspirated voiceless velar plosive
and xxx house it and then		
the glass smashes"		
5. "I ordered <u>crisps</u> for my	[ˈkɹɪsp]]	Voiceless velar plosive
lunch"		
6. "When you first had a	[ˈkweiːvə]	Voiceless velar plosive
<u>quaver</u> "		
7. "Not <u>comfortable</u> "	[ˈkʰῦmft̪əbl]	Aspirated voiceless velar plosive
8. "Mum you <u>can't</u> "	['kã:nt]	Unaspirated voiceless velar plosive
9. "They/they'd keep	[ˈkxʰip]	Voiceless velar plosive with slight
falling over"		affricated release
10. * "I think you just	[ˈklaĩm]	Voiceless velar plosive
<u>climb</u> on a xxx and go		
ah!"		

Table 43. Thomas's Realisations of Word-Initial Target Velar Plosives at Age 4;0;7

Table 44. Thomas's Realisations of Word-Medial Target Alveolar Plosives at Age 4;0;7

Utterance	Realisation	Description of Phenomena
1. "I'm just putting this on	[ˈpʰʊt̪ɪɲ]	Dentalised voiceless alveolar plosive
the/its bottom xxx"		
2. "I'm just putting this on	[ˈbɒtʰǝ̈́m̊]	Aspirated voiceless alveolar plosive
the/its bottom xxx"		
3. "Just pretend I couldn't	[pəˈt̪ə̃nd̪]	Dentalised voiceless alveolar plosive
hear anything"		
4. "Not <u>comfortable</u> "	[ˈkʰῦmft̪əblֽ]	Dentalised voiceless alveolar plosive
5. "They must be	<sup>'</sup> æsĕvə,taızĩŋ]	Dentalised voiceless alveolar plosive
advertising reds"		
6. "I like grunting"	[ˈɡ.ıῦnțĩn]	Dentalised voiceless alveolar plosive
7. "These are <u>better</u> "	[ˈbɛtʰə]	Aspirated voiceless alveolar plosive
8. "Save that for <u>later</u> "	[ˈleɪt̪ə]	Retracted voiceless alveolar plosive
9. "Hurts more than sitting	[ˈsɪt̪ɪn]	Dentalised voiceless alveolar plosive
on it"		
10. "xxx <u>Yesterday</u> "	[ˈjɛst̪əd̪eɪ]	Dentalised voiceless alveolar plosive

Utterance	Realisation	Description of Phenomena
1. "Ah! Secret supply"	[ˈsikrɪʔ]	Voiceless velar plosive
2. "I'm gonna make a	['bæsk <sup>j</sup> 1?]	Palatalised voiceless velar plosive
<u>basket</u> too"		
3. "But those are <u>stickers</u> "	[ˈst̪ɪkəz̪ː]	Voiceless velar plosive
4. "Look! I'm standing	['kʰɒ̃ŋkwi?]	Voiceless velar plosive
in/standing/stand in the		
concrete that's wet"		
5. "First, did you think it	[ɪkˈspləʊd̪ĩn]	Voiceless velar plosive
was exploding"		
6. "Are you <u>thinking</u> what	[ˈfĩŋkʰĩn]	Aspirated voiceless velar plosive
pudding might be?"		
7. "Must be made of ick	[ˈlɪkɹɪ∫]	Voiceless velar plosive
lick <u>liquorice</u> "		
8. * "xxx Lots xxx This is	['ɛʔs̪təˌveit̪ə]	Dentalised voiceless alveolar plosive
a <u>excavator</u> "		
9. "I hope it does tickle"	[ˈdɪkl]	Voiceless velar plosive
10. " <u>Chocolate</u> "	['t∫∧klıt <sup>h</sup> ]	Voiceless velar plosive

Table 45. Thomas's Realisations of Word-Medial Target Velar Plosives at Age 4;0;7

Table 46. Thomas's Realisations of Word-Final Target Alveolar Plosives at Age 4;0;7

Utterance	Realisation	Description of Phenomena
1. "Mum I've done <u>it</u> "	[Iť]	Dentalised alveolar ejective
2. "Ah! Who's ripped it?"	[ˈdupˈt̪]	Dentalised voiceless alveolar plosive
3. "Try and <u>put it there</u> "	[pųr]	Alveolar tap
4. "Look <u>at</u> our house"	[٦6]	Alveolar tap
5. "That's the chimney	[fık̥ṣ̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣	Weak dentalised voiceless alveolar
that's not <u>fixed</u> on"	2 2	plosive. Weakly articulated final
		cluster
6. * "xxx It on that <u>plate</u> "	['pleɪt']	Alveolar ejective
7. "Mum, when you <u>first</u>	[ˈfə̣ṣt̪ʰ]	Aspirated dentalised voiceless
had one, what was it		alveolar plosive
like"		
8. "I sleeped"	[ˈs̪ <sup>1</sup> ɪp ]t̯]	Dentalised voiceless alveolar plosive
9. "If you would/can shut	[∫ʊṯ]	Retracted voiceless alveolar plosive
up"		
10. "Mum you <u>can't</u> "	['kã:nt]	Voiceless alveolar plosive

Utterance	Realisation	Description of Phenomena
1. "xxx <u>Magic</u> look xxx the	['mædʒɪk <sup>j</sup> ]	Palatalised voiceless velar plosive
house"		
2. "xxx Magic <u>look</u> xxx the	[lʊk]	Voiceless velar plosive
house"		
3. "But I didn't use the	[ˈpĩŋk]	Voiceless velar plosive
<u>pink</u> "		
4. "You said "Would you	[lạɪɣ]	Weak voiced velar fricative
like a jam sandwich?" "		
5. * "I'm gonna, I'm gonna	['meikh]	Aspirated voiceless velar plosive
make a bigger house"		
6. "Every time I was	['b.teik]	Voiceless velar plosive
hungry, I could <u>break</u> off		
the house"		
7. "First, did you <u>think</u> it	[ˈfĩŋk]	Voiceless velar plosive
was exploding?"		
8. "and/it xxx would it be	['wk']	Velar ejective
<u>work</u> ?"		
9. "Can I look at () can I	[ˈbæʔk]	Voiceless velar plosive
look at the <u>back</u> "		
10. "With <u>milk</u> "	[ˈmïłk]	Voiceless velar plosive

Table 47. Thomas's Realisations of Word-Final Target Velar Plosives at Age 4;0;7
# **Appendix Three**

# Thomas's Realisations of *Can* and *Can't* at Age Two

# 3.1. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> Sampled at Age 2;3

Utterance	Realisation	Description of Phenomena
1. " <u>I can</u> "	[ặ ˈt̪쬹̃n]	Immediate imitation of mother.
		Stress on can, although mother
		stressed I.
2. " <u>I can</u> "	[ặ <sup>'</sup> <del>j</del> ữ:n]	Immediate repetition of mother.
		Stress on can, although mother
		stressed I.

Table 1. Thomas's Realisations of Can and Can't at Age 2;3;10

# 3.2. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> Sampled at Age 2;5

Utterance	Realisation	Description of Phenomena
1. * "Yes <u>I can</u> "	[ə̥ ˈt̪ʰ̃æ̃n]	Stressed. Spontaneous.
		Contextually incongruent
2. * "Yes <u>I can</u> "	[æ ˈt̪ʰæ̃n]	Stressed. Response to
		mother's request for
		clarification
3. * "Yes <u>I can</u> "	[ə 't <sup>h</sup> æn]	Stressed. Response to
		mother's request for further
		clarification

# 3.3. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> Sampled at Age 2;6

Utterance	Realisation	Description of Phenomena
1. " <u>Can't see it</u> "	[ķã? sij]	Unstressed. First use of can't as
		auxiliary. First close juncture form
		of can't. Immediate imitation of
		mother

#### Table 3. Thomas's Realisations of Can and Can't at Age 2;6;12

#### Table 4. Thomas's Realisations of Can and Can't at Age 2;6;19

Utterance	Realisation	Description of Phenomena
1. * "No I <u>can't</u> "	['k <sup>h</sup> ãn?t:]	Stressed. Spontaneous. Open
		juncture. Mother immediately
		repeats, also with open juncture.
		Contextually congruent
2. "Bob the Builder, yes we	['khẳn]	Stressed. Short vowel. Formulaic
<u>can</u> "		
3. "Yes it <u>can</u> "	''k <sup>jh</sup> æn:]	Stressed. Formulaic
4. "Yes it <u>can</u> "	[ˈkʰæːnːə̆]	Stressed. Immediate repetition
5. "Yes we <u>can</u> "	[ˈk <sup>jh</sup> æ̈:n]	Stressed. Elicited by rhyme.
		Formulaic. Speaking together with
		mother
6. "Yes we <u>can</u> "	['k <sup>jh</sup> æn]	Stressed. Spontaneous, formulaic.
		Forming argument with mother
7. "Yes, <u>can</u> "	['tʰæ̃n]	Stressed. Formulaic. Continuing
		argument with mother

#### Table 5. Thomas's Realisations of Can and Can't at Age 2;6;22

Utterance	Realisation	Description of Phenomena
1. "Yes we <u>can</u> "	[ˈkʰæ̃ːn]	Stressed. Formulaic
2. "Yes we <u>can</u> "	[k <sup>j</sup> æːn]	Stressed. Formulaic. Repetition

Note: the utterance "yes we can" occurred very frequently and was therefore not transcribed beyond this age, unless it demonstrated novel phonetic, phonological or syntactic phenomena.

# Table 6. Thomas's Realisations of Can and Can't at Age 2;6;25

Utterance	Realisation	Description of Phenomena
1. <u>"Can't</u> "	['țã:nț]	Stressed. Realised with final
		dentalised [t]. Contextually
		congruent. Mother repeats also with
		final [t]

# Table 7. Thomas's Realisations of Can and Can't at Age 2;6;26

Utterance	Realisation	Description of Phenomena
1. " <u>Can't</u> "	[kʰẳ̃nț]	Whispered. Repetition
2. * " <u>Can't</u> "	['t̪ʰãnt̪]	Stressed. Dentalised. Contextually
		congruent

# 3.4. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> Sampled at Age 2;7

Utterance	Realisation	Description of Phenomena
1. "Can't <u>reach</u> "	[kʰą̃n? ′vit∬]	Unstressed. First spontaneous usage of
		<i>can't</i> with main verb

#### Table 8. Thomas's Realisations of Can and Can't at Age 2;7;1

#### Table 9. Thomas's Realisations of *Can* and *Can't* at Age 2;7;5

Utterance	Realisation	Description of Phenomena
1. "I <u>can't</u> "	['kʰãnț]	Stressed. Initial [k]. Dentalised final [t]
2. * "I <u>can't sleep</u> "	[gã? 'θlɪp]	Stressed. Second spontaneous use of
		can't with main verb. Initial voiced velar
		plosive. Response to request for
		clarification
3. "No I <u>can't</u> "	[t̪ə̃ʔˈɑ̃nt̪]	Stressed. Initial alveolar plosive.
		Providing further clarification following
		"I can't sleep"

#### Table 10. Thomas's Realisations of Can and Can't at Age 2;7;9

Utterance	Realisation	Description of Phenomena
1. " <u>I can see y</u> ou"	[a m si]	First weak form of <i>can</i> . Greatly reduced.
		Also first spontaneous SVO. Mother
		imitates with weak form
2. "Can't see you"	[k <sup>h</sup> ãn? 'si	First spontaneous <i>can't</i> with main verb
		in SVO clause

#### Table 11. Thomas's Realisations of Can and Can't at Age 2;7;14

Utterance	Realisation	Description of Phenomena
1. "Can't <u>talk</u> apple now"	[(C)ãn tɔ?]	Unstressed. May have been can. First
(meaning "I can't talk		possible VSOA construction
because I'm eating an apple		
now")		

# Table 12. Thomas's Realisations of Can and Can't at Age 2;7;15

Utterance	Realisation	Description of Phenomena
1. "Yes <u>can hear (and a)</u> "	[xõn hieu]	Second weak form. Nearer to adult
		form than previous weak form

#### Table 13. Thomas's Realisations of Can and Can't at Age 2;7;25

Utterance	Realisation	Description of Phenomena
1. "Can't <u>open i</u> t"	[?ɑ̃n? '?ə̯ʊpən]	Unstressed. Unusual form

#### Table 14. Thomas's Realisations of Can and Can't at Age 2;7;26

Utterance	Realisation	Description of Phenomena
1. "Can see please?"	['t <sup>h</sup> æ̃n si]	First question, although with
		declarative, rather than interrogative
		structure

#### Table 15. Thomas's Realisations of Can and Can't at Age 2;7;28

Utterance	Realisation	Description of Phenomena
1. "Oh yes <u>we can</u> "	[wr: ˈkʰˤæm]	Stressed. Contextually more
		congruent than previous examples

# 3.5. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> Sampled at Age 2;8

Utterance	Realisation	Description of Phenomena
1. "Bob the Builder, <u>can we</u>	['th̃̃ãn 'wį]	Stressed. Initial [t]. Formulaic
fix it?"		
2. "Can get it out"	['tʰæ̃n dɛt̯]	Stressed. Whole utterance dentalised.
		Possible progressive alveolar
		assimilation. No velar assimilation.
		Categorised as open juncture.
		Immediate imitation of mother
		including stress pattern. Mother
		assimilates previous utterance. VOA
		construction
3. " <u>Not can't</u> "	[np? 'thant]	Stressed

Table 16. Thomas'	s Realisations of <i>Can</i> and	d Can't at Age 2;8;21
-------------------	----------------------------------	-----------------------

Note: the utterance "can we fix it" occurred increasingly frequently and therefore was not transcribed beyond this age, unless it demonstrated novel phonetic, phonological or syntactic phenomena.

Utterance	Realisation	Description of Phenomena
1. "Mummy not <u>can't see</u> "	[ṯãnʔ ˈsi]	Unstressed. Close juncture with
(meaning "Mummy		glottal stop
can't see")		
2. "Not can't see now"	[tk <sup>jh</sup> ãn? 'si]	Unstressed. VA structure
(meaning "I can't see		
now")		

Table 18. Thomas's Realisations of Can and Can't at Age 2;8;25

Utterance	Realisation	Description of Phenomena
1. "xxx <u>Can't see it</u> "	[tận sư?i ư̯]	Unstressed. Close juncture with final
		nasal

# 3.6. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> Sampled at Age 2;9

Utterance	Realisation	Description of Phenomena
1. "Of course you can"	[ju 'k <sup>sh</sup> æ̃n	Stressed. Formulaic
2. "I <u>Can't talk</u> "	[k <sup>sh</sup> ã <sup>s</sup> n? 't <sup>h</sup> ok <sup>j</sup> ]	Unstressed. Close juncture. SVO.
		Speaking with mouth full

#### Table 19. Thomas's Realisations of Can and Can't at Age 2;9;1

#### Table 20. Thomas's Realisations of Can and Can't at Age 2;9;2

Utterance	Realisation	Description of Phenomena
1. "Don't think <u>I can</u> "	[maɪ ˈkʰæ̃n]	Stressed. First embedded clause, but
		formulaic and immediate imitation of
		mother

#### Table 21. Thomas's Realisations of Can and Can't at Age 2;9;3

Utterance	Realisation	Description of Phenomena
1. "Can see flowers"	[(C,Vls)ņ si]	Unstressed. Almost adult-like weak
		form

#### Table 22. Thomas's Realisations of Can and Can't at Age 2;9;7

Utterance	Realisation	Description of Phenomena
1. * "I <u>can see a</u> little	[gភ្ sij]	Stressed. First SVO with O:NP
carrot"		modified by an adj

#### Table 23. Thomas's Realisations of Can and Can't at Age 2;9;15

Utterance	Realisation	Description of Phenomena
1 * "Course we can"	[k <sup>h</sup> ãn]	Stressed

Utterance	Realisation	Description of Phenomena
1. "Eh! I <u>can't see</u> "	[kʰãnʔ s <u>i]</u>	Unstressed. Close juncture.
		Spontaneous, rather than imitative
2. "I <u>can't see</u> "	[ˈkãn? s <u>i]</u>	Stressed. Close juncture.
		Spontaneous. Communicative
3. "I <u>can't find</u> Cranky"	[k <sup>h</sup> ãn? <sup>'</sup> fæn]	Stressed. Close juncture

#### Table 24. Thomas's Realisations of Can and Can't at Age 2;9;17

#### Table 25. Thomas's Realisations of Can and Can't at Age 2;9;18

Utterance	Realisation	Description of Phenomena
1. "And I can't see"	[k <sup>h</sup> ãndə̃ si]	Unstressed. Open juncture with
		voicing and epenthesis

#### Table 26. Thomas's Realisations of Can and Can't at Age 2;9;21

Utterance	Realisation	Description of Phenomena
1. "I can see Purdie"	[ɣə̃ si]	Weak form with initial voiced velar
		fricative. First use of see with an
		object other than you

#### Table 27. Thomas's Realisations of Can and Can't at Age 2;9;22

Utterance	Realisation	Description of Phenomena
1. "I <u>can't see a farmer</u> "	[kʰãnʔ ˈsɪ ə]	Unstressed. Close juncture. see with
		new object
2. "I <u>can't see</u> fire"	[khān ˈtsi]	Unstressed. Semi-open juncture.
		Another new object, indicating
		generalisation of see to new SVO
		clauses
3. "I <u>can't hear h</u> er"		Untranscribable. No linking between
		audio and Chat files

Note: utterances containing *can see* or *can't see* were not transcribed beyond 2;9;22, unless they demonstrated novel phonetic, phonological or syntactic phenomena.

## Table 28. Thomas's Realisations of Can and Can't at Age 2;9;23

Utterance	Realisation	Description of Phenomena
1. "I <u>can't get it</u> open"	['khãn? (C,Vd)et]	Stressed. Close juncture. No
		assimilation. Mother repeats with
		assimilation

#### Table 29. Thomas's Realisations of Can and Can't at Age 2;9;24

Utterance	Realisation	Description of Phenomena
1. "Yes I <u>can't talk</u> a her,	[k <sup>sh</sup> ãn? <sup>'</sup> təw]	Unstressed. Close juncture. First
er my a little baby"		attempt at coordination
(meaning "I can't talk to		
her, I'm a little baby")		

#### Table 30. Thomas's Realisations of Can and Can't at Age 2;9;25

Utterance	Realisation	Description of Phenomena
1. * "I can't get this	[ˈkãntʷɣ dɛ? dɪs]	Stressed. Open juncture with
postbox out"		epenthesis. No velar assimilation, but
		maybe progressive alveolar
		assimilation

#### Table 31. Thomas's Realisations of Can and Can't at Age 2;9;28

Utterance	Realisation	Description of Phenomena
1. "Can't <u>close it properly</u> "	[kãn? <sup>'</sup> kləʊz]	Unstressed. Close juncture with
		glottal stop. No assimilation. Mother
		repeats, also without assimilation
2. "Bob Builder <u>can't do</u>	[dãn? du]	Unstressed. Close juncture. Possible
Wendy's zip"		progressive alveolar assimilation.
		Complex S and O noun phrases
3. "I <u>can't get</u> through	[ˈkʰãn gɛ̯ʔ]	Close juncture. No assimilation.
now"		Mother repeats without assimilation

Utterance	Realisation	Description of Phenomena
1. "I <u>can't see a</u> Teletubbies	[ˈkʰãn t̪s̪ij]	Unstressed. Semi-open juncture with
saying"		affrication. First non-imitative
		attempt at subordinate object clause
2. * "Can't <u>see a</u>	[kẵn? sij]	Unstressed. Repeating in response to
Teletubbies saying"		request for clarification
3. "Can't (really?) sit down	['kʰãm wɪi]	Stressed. Bilabial assimilation before
there"		[w]
4. "No I <u>can't do</u> it this"	[k <sup>h</sup> ãn? 'duw]	Unstressed. Close juncture with
		glottal stop

# Table 32. Thomas's Realisations of Can and Can't at Age 2;9;29

Note: the utterances "can", "I can", "we can", "can't", "I can't" and "can't do it" occurred very frequently and were therefore not transcribed beyond this age, unless they demonstrated novel phonetic, phonological or syntactic phenomena.

Table 33. Thomas's Realisations of Can and Can't at Age 2; 9;30

Utterance	Realisation	Description of Phenomena
1. "Can't <u>reach i</u> t"	[k <sup>h</sup> ãn: 'rĭt∬]	Unstressed. Close juncture with final
		nasal

# 3.7. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> Sampled at Age 2;10

Utterance	Realisation	Description of Phenomena
1. "Can't <u>reach up high</u> "	[khãn? wi(C,Vls)]	Unstressed. Close juncture with
		glottal stop
2. "I <u>can't see a blue ink</u> "	[k <sup>h</sup> ãnț și]	Unstressed. Open juncture. Second
		adj in O:NP

#### Table 34. Thomas's Realisations of Can and Can't at Age 2;10;0

#### Table 35. Thomas's Realisations of Can and Can't at Age 2;10;6

Utterance	Realisation	Description of Phenomena
1. "I <u>can't fix</u> him"	[k <sup>h</sup> ãn? 'fıks]	Unstressed. Close juncture.
		Contextually congruent, not just Bob
		the Builder formula

#### Table 36. Thomas's Realisations of Can and Can't at Age 2;10;7

Utterance	Realisation	Description of Phenomena
1. "I <u>can't see</u> Purdie now"	[kʰãn ˈsႍi]	Unstressed. Close juncture with final
		nasal. SVOA construction
2. " <u>Please can I have a</u>	['pli xæəv av]	Unstressed. Most complex
chocolate cake"		interrogative form produced, but not
		used as a question. Great phonetic
		reduction

#### Table 37. Thomas's Realisations of Can and Can't at Age 2;10;8

Utterance	Realisation	Description of Phenomena
1. "Ah! I <u>can't</u>	$[k^{h}$ ãnt <sup>s</sup> (.) mɛə̃m]	Stressed. Open juncture with pause
(re)member"		

Utterance	Realisation	Description of Phenomena
1. "I can't get it off now	['khãn? g <sup>j</sup> ệt]	Stressed. Close juncture with glottal
xxx stuck"		stop. No assimilation, possibly
		because of following palatalised
		plosive. Possible attempt at
		subordination
2. "I can't (re)member it"	['khām 'membəv]	Stressed. No glottal stop in can't.
		First bilabial assimilation
3. "I <u>can't see her now</u> "	['kʌr? tsi]	Stressed. Unusual articulation.
		SVOA construction

# Table 39. Thomas's Realisations of Can and Can't at Age 2;10;21

Utterance	Realisation	Description of Phenomena
1. * "Can't see it under	[k <sup>h</sup> ãn si]	Unstressed. Close juncture with final
there"		nasal. VSA clause. Adverbial
		prepositional phrase

## Table 40. Thomas's Realisations of Can and Can't at Age 2;10;24

Utterance	Realisation	Description of Phenomena
1. * "Can't <u>(re)</u> member it"	[ˈkãn: ˈmɛmbəʊ]	Stressed. Close juncture with final
		nasal. No assimilation

## Table 41. Thomas's Realisations of Can and Can't at Age 2;10;26

Utterance	Realisation	Description of Phenomena
1. "I can't (re)member it"	[gp 'membev]	Unstressed. Close juncture with no
		final cluster. No assimilation

# 3.8. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> Sampled at Age 2;11

Utterance	Realisation	Description of Phenomena
1. "I <u>can't blow</u> it"	['kʰãm 'blə:ʊ:w]	Stressed. No final glottal stop in
		can't. Bilabial assimilation
2. "I <u>can't blow</u> it"	['khām 'bleuw]	Stressed. No final glottal stop in
		can't. Bilabial assimilation

#### Table 42. Thomas's Realisations of Can and Can't at Age 2;11;0

#### Table 43. Thomas's Realisations of Can and Can't at Age 2;11;6

Utterance	Realisation	Description of Phenomena
1. "I can't see it under	[k <sup>h</sup> ặn <u>ˈt̪s</u> i]	Unstressed. Short vowel. Another
here"		adverbial prepositional phrase
2. * "I can't put it on now	[ˈkʰãn? muːt]	Stressed. No regressive bilabial
fall down the floor		assimilation, but progressive nasal
again"		assimilation

#### Table 44. Thomas's Realisations of Can and Can't at Age 2;11;10

Utterance	Realisation	Description of Phenomena
1. "I <u>can't see my</u> spanner"	['khān? tsi]	Stressed. New object noun phrase
		with modifying possessive pronoun
2. "I can't see my spanner	[ˈkãnʔ t̪s̪i]	Stressed. SVOA. New adverbial
anywhere"		
3. "Erm <u>I can't (re)member</u>	['?æ hæ 'membəv]	Unstressed on <i>can't</i> . Close juncture.
it"		No final consonant. No assimilation
4. * "I <u>can (.) off</u> people"	[k <sup>h</sup> ĩn: (.) '?ɒf]	Unstressed. Vowel alteration. Pause
		and open juncture No main verb was
		absent
5. "I <u>can't see him</u>	[k <sup>h</sup> ãn? sı ə̃m]	Unstressed. Close juncture with
anywhere"		glottal stop. SVOA

# Table 45. Thomas's Realisations of Can and Can't at Age 2;11;12

Utterance	Realisation	Description of Phenomena
1. "I <u>can't see her tummy</u>	[khãn? 'si 3]	Unstressed. Close juncture with
		glottal stop. New possessive
		adjective and object

#### Table 46. Thomas's Realisations of Can and Can't at Age 2;11;13

Utterance	Realisation	Description of Phenomena
1. "I <u>can't see</u> any more	[khãn ˈtsɪ]	Unstressed. Semi-open juncture with
		affrication. SVA clause
2. "I can't (re)member"	['khām: 'membəvə]	Stressed. Bilabial assimilation

## Table 47. Thomas's Realisations of Can and Can't at Age 2;11;14

Utterance	Realisation	Description of Phenomena
1. "Your <u>can't see a big</u>	['kʰɑ̃n? sij]	Stressed. Close juncture with glottal
huge box yet"		stop. SVOA with object noun phrase
		modified by two adjectives
2. "I <u>can't</u> "	[k <sup>h</sup> ãn]	Stressed. No final /t/ in utterance-
		final position
3."Erm I <u>can't</u> "	[k <sup>h</sup> ãn?]	Stressed. Final glottal stop in
		utterance-final position

#### Table 48. Thomas's Realisations of Can and Can't at Age 2;11;18

Utterance	Realisation	Description of Phenomena
1. "I can't see my yellow	[k <sup>h</sup> õn si]	Unstressed. Unusual form
spanner"		
2. "No I <u>can't see a</u>	[khãn? si]	Unstressed. Close juncture. SVOA.
rainbow up in sky"		Adverbial prepositional phrase with
		qualifying prepositional phrase

Utterance	Realisation	Description of Phenomena
1. "You <u>can't see</u> any more	['kʰã si]	Stressed. Close juncture with no
letters"		final cluster in can't. First can't with
		subject pronoun <i>you</i> .
2. "You <u>can go home now</u> "	[kʰʰn ɡəʊ]	Adult-like weak form. Open
		juncture. No assimilation. First can
		with subject pronoun you.

# Table 49. Thomas's Realisations of Can and Can't at Age 2;11;25

## Table 50. Thomas's Realisations of Can and Can't at Age 2;11;27

Utterance	Realisation	Description of Phenomena
1. "Just too heavy these	[kʰãn ˈhəʊłd]	Unstressed. Close juncture with
trains, because, I can't		consonant elision. Coordination
hold xxx"		
2. "His car, you <u>can't see</u>	[khān? 's'i:]	Unstressed. Close juncture with
where's the money"		glottal stop. Subordinate object
		clause
3. "You <u>can't see a train</u> "	[ˈkʰɑ̃n t̪s̪ij]	Stressed. Semi-open juncture with
		affrication. Second you as subject

#### Table 51. Thomas's Realisations of Can and Can't at Age 2;11;28

Utterance	Realisation	Description of Phenomena
1. "Can't (re)member that"	['khām 'membeu]	Stressed. Bilabial Assimilation
2. * "Can't <u>you</u> smell xxx"	['k <sup>h</sup> ãn? je]	Stressed. Close juncture with glottal
		stop. Possible interrogative with
		subject-verb inversion, but meaning
		unclear

#### 3.9. Notes on Transcription Discrepancies

Utterances marked by asterisks indicate that there is a discrepancy between the interpretations of the current author and the original transcribers. Many of these discrepancies result from the denotation of a schwa in the Chat transcript when the transcriber was unable to identify a function word, but the current author could confidently identify it. The nature of each discrepancy is given below with reference to the Chat transcripts available from the CHILDES database.

1. Age 2;5;10: All three realisations of "yes I can" read "yes. a@p can" in the Chat transcript (see lines 434, 438 and 441).

2. Age 2;6;19: "No I can't" reads "a@p can't" in the Chat transcript (see line 282).

3. Age 2;6;19: "Can't" reads "it can't" in the Chat transcript (see line 1180).

4. Age 2;7;5: "I can't sleep" reads "can't sleep" in the Chat transcript (see line 1448).

5. Age 2;9;7: "I can see a little carrot" reads "a@p can see a little carrot" in the Chat transcript (see line 567).

6. Age 2;9;25: "I can't get this post-box out" reads "I can't get Jess &s post-box out" in the Chat transcript (see line 721).

7. Age 2;9;29: "I can't see a Teletubbies saying" and "can't see a Teletubbies saying" read "I can't see a@p Teletubby saying" and "what 0is [\*] the Teletubby saying?" respectively in the Chat transcript (see lines 11 and 13).

8. Age 2;9;29: "Can't really sit down there" reads "can't sit down there" in the Chat transcript (see line 1195).

9. Age 2;10;21: "Can't see it under there" reads "I can't see under there" in the Chat transcript (see line 150).

10. Age 2;11;6: "I <u>can't put</u> it on now fall down the floor again" reads "I can't put it on a@p throw down a@p floor again" (see line 1935).

11. Age 2;11;10: "I can (.) off people" reads "I can take them off people" in the Chat transcript (see line 775).

12. Age 2;11;28: "Can't you smell xxx" reads "can't smell" xxx in the Chat transcript (see line 992).

13. Many of the utterances given here are transcribed as multiple utterances in the Chat transcripts according to transcription conventions. However, they were considered as single utterances here because they were uttered in one breath or they appeared to form a single construction.

14. Not all tokens of each utterance were transcribed, especially in the case of utterances which increased greatly in frequency without showing the phonological and syntactic changes relevant to this study.

# 3.10. Frequency Counts for <u>Can</u> and <u>Can't</u> at Age Two

Age	Can Frequency	Can't Frequency
2;3;10	2	0
Total frequency	2	0

#### Table 52. Frequencies of Can and Can't at Age 2;3

#### Table 53. Frequencies of Can and Can't at Age 2;5

Age	Can frequency	Can't frequency
2;5;10	3	0
Total Frequency	3	0

## Table 54. Frequencies of Can and Can't at Age 2; 6

Age	Can frequency	Can't Frequency
2;6;12	0	1
2;6;19	6	1
2;6;22	6	0
2;6;25	3	1
2;6;26	0	2
Total frequency	15	5

Age	Can Frequency	Can't Frequency
2;7;1	2	0
2;7;5	1	3
2;7;6	0	1
2;7;9	1	1
2;7;12	0	3
2;7;13	1	4
2;7;14	1	7
2;7;15	1	0
2;7;16	2	1
2;7;19	0	8
2;7;23	1	3
2;7;24	0	2
2;7;25	0	2
2;7;26	2	0
2;7;27	0	2
2;7;28	1	0
Total frequency	13	37

# Table 55. Frequencies of Can and Can't at Age 2;7

Age	Can Frequency	Can't Frequency
2;8;0	2	0
2;8;5	0	2
2;8;6	0	1
2;8;12	1	0
2;8;21	2	1
2;8;21	0	3
2;8;25	0	2
2;8;28	2	0
Total frequency	7	9

# Table 56. Frequencies of Can and Can't at Age 2;8

Age	Can Frequency	Can't Frequency
2;9;1	1	1
2;9;1	1	0
2;9;3	1	4
2;9;4	5	0
2;9;7	1	0
2;9;8	1	0
2;9;10	2	1
2;9;11	1	0
2;9;15	2	1
2;9;17	2	5
2;9;18	1	1
2;9;21	1	0
2;9;22	0	4
2;9;23	0	2
2;9;24	1	4
2;9;25	0	6
2;9;28	0	5
2;9;29	0	4
2;9;30	0	2
Total frequency	20	40

## Table 57. Frequencies of Can and Can't at Age 2;9

Age	Can Frequency	Can't Frequency
2;10;0	0	2
2;10;6	2	1
2;10;7	1	1
2;10;8	0	1
2;10;9	1	2
2;10;11	0	1
2;10;12	1	1
2;10;13	0	3
2;10;20	2	0
2;10;21	0	1
2;10;22	0	3
2;10;23	2	0
2;10;24	0	1
2;10;25	0	1
2;10;26	0	1
2;10;27	0	2
2;8;28	0	1
Total frequency	9	22

# Table 58. Frequencies of Can and Can't at Age 2;10

Age	Can Frequency	Can't Frequency
2;11;00	0	5
2;11;3	0	1
2;11;4	1	1
2;11;6	0	4
2;11;7	0	1
2;11;10	4	6
2;11;12	0	1
2;11;13	0	2
2;11;14	0	14
2;11;18	0	4
2;11;21	0	8
2;11;25	1	2
2;11;26	2	1
2;11;27	0	3
2;11;28	1	2
Total Frequency	9	55

# Table 59. Frequencies of Can and Can't at Age 2;11

# 3.11. Summary of Frequency Counts for <u>Can</u> and <u>Can't</u> at Age Two

Age	Can Frequency	Can't Frequency
2;3	2	0
2;5	3	0
2;6	15	5
2;7	13	37
2;8	7	9
2;9	20	40
2;10	9	22
2;11	9	55

Table 60. Frequencies of *Can* and *Can't* Occurrence at Age Two: Summary

# **Appendix Four**

# Thomas's Realisations of *Can* and *Can't* at Potential Assimilation Sites at Ages Three and Four

# 4.1. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 3;0

Table 1. Thomas's Realisations of	f Can and Can't at Potential	Assimilation Sites at Age 3:0:0

Utterance	Realisation	Description of Phenomena
1. "I can't get this out"	[kʰãn d̥ɛˈt̪ɪːs̪]	Close juncture with final
		nasal. No assimilation
2. "I <u>can't bang</u> "	[kʰãn ˈbæ̃n:d]	Close juncture with final
		nasal. No assimilation

Utterance	Realisation	Description of Phenomena
1. " <u>Can't get it out</u> "		Not sufficiently audible for
		transcription and intended
		utterance uncertain
2. " <u>Can't get it out</u> "	[khãn 'dɛt tt]	Close juncture with final
		nasal. Possible progressive
		alveolar/dental assimilation

#### Table 3. Thomas's Realisations of Can and Can't at Age 3;0;2

Utterance	Realisation	Description of Phenomena
1. "I can't do it like that"	['khãn 'duu:w]	Close juncture with final nasal
2. "No <u>can't</u> "	[ <sup>1</sup> k <sup>h</sup> ãm(C,Vls)]	Final bilabial nasal with
		indeterminate word-final click-
		like consonant

Note: *can* and *can't* did not occur at any sites at age 3;0;3, 3;0;7, 3;1;0, 3;1;1 or at 3;1;2.

# 4.2. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 3;1

Utterance	Realisation	Description of Phenomena
1. "Then, you <u>can see him</u> "	[ˈkʰ̃æ sij]	Stressed No final nasal, but
		vowel nasalisation
2. "You <u>can leave</u> my toys	['khæ̃(Nas) '(app)iv]	Stressed. Syllable-timed
on my shoulders like		
this"		
3. * "I <u>can't wear it</u> , I	[khām? weəv]	Close juncture. Bilabial
can't"		assimilation prior to [w]
4. * "I can't wear it, I	['(C,Vls)əָ(C,Vls]	Unusual articulation
<u>can't</u> "		
5. "Of course you <u>can</u> "	[ <sup>1</sup> k <sup>Sh</sup> 쬹n]	Stressed
6. "Look, You can stroke	[k <sup>h</sup> æ̃n stuəuk]	Stressed, but not tonic
his hair"		

#### Table 4. Thomas's Realisations of Can and Can't at Age 3;1;2

Utterance	Realisation	Description of Phenomena
1. "I <u>can (.) make some</u>	['aı khậm (.) mei]	Unstressed. Bilabial
room now"		assimilation despite pause at
		word boundary

Note: can and can't did not occur at any potential assimilation sites at age 3;1;4.

# 4.3. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 3;2

Utterance	Realisation	Description of Phenomena
1. "That <u>can't go</u> in"	[ˈkʰãnʔ gəʊ]	Close juncture with glottal stop.
		No assimilation

## Table 6. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;2;2

#### Table 7. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;2;3

Utterance	Realisation	Description of Phenomena
1. "You <u>can count</u> number	[tʰæ̃n ˈtaʊ]	Unstressed. No vowel reduction.
one"		Open juncture. No regressive
		velar assimilation, but possible
		progressive alveolar assimilation
2. " <u>Can count</u> one two	['kʰæ̃m (.) 't̪ạɪ]	Stressed. Open juncture. No
number six"		regressive velar assimilation, but
		possible progressive alveolar
		assimilation

Utterance	Realisation	Description of Phenomena
1. "Mummy, this is xxx	$[k^h a \dots \tilde{a} \dots nn d \breve{q}]$	Stressed, but not tonic.
Purdie can do I'm Purdie"		Relatively long vowel. Possibly
		counts as two separate sentences,
		as analysed in Chat file
2. "Oh I can't get this out"	[ <sup>1</sup> k <sup>h</sup> ãŋ ge?]	Stressed. Velar assimilation
3. " <u>Can't get it out</u> "	[kăgã jɛt̪]	Unstressed. Unusual form. Close
		juncture with no final cluster
4. " <u>Can't fall down</u> "	[kam fəł]	Labiodental assimilation
5. "Purdie <u>can say that</u> "	[kr șeij]	Unstressed. No vowel alteration.
		No final nasal. Weak consonant
		articulation throughout whole
		utterance
6. " <u>Can eat (</u> th)em"	[ˈgæ̃n ˈit̪ ə̃m]	Stressed. No vowel reduction.
	· ·	Initial consonant voicing
7. "Purdie <u>can't get i</u> n"	['khãn? geț]	Close juncture with glottal stop.
		No assimilation
8. "No you <u>can't</u> "	[ˈkãnʔ]	Stressed. Final glottal stop
9. "No you <u>can't</u> "	[gẵ]	Unstressed. Initial voiced
		consonant. Short vowel. No final
		consonant

## Table 8. Thomas's Realisations of Can and Can't at Age 3;2;4

## Table 9. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;2;5

Utterance	Realisation	Description of Phenomena
1. "I get a, I, I <u>can pl</u> ,	[ˈkʰæ̃m pl̥]	Stressed. Bilabial assimilation
Teletubbies can play with my		despite false start in the
fishing-rod"		following word
2. "I get a, I, I can pl,	['k <sup>h</sup> æ̃n 'pleij]	Stressed. Syllable-timed. Open
Teletubbies <u>can play</u> with my		juncture revision
fishing-rod"		
3. "You <u>can't go</u> wee"	[kʰə̆ 'kʰãnʔ gəʊ]	Weak form of <i>can't</i> . No final
		consonant. No assimilation.
		Close juncture
4. "I can catch it in my hands"	['khãn 'kwæ(Pl,Vls)]	Stressed, but not tonic. No
		assimilation. Open juncture
5. " <u>Can't pay</u> "	['kõn feɪ]	Weak form of <i>can't</i> . Close
		juncture with final nasal. No
		assimilation
6. "Look this, you <u>can put</u> in"	['k <sup>h</sup> ɛə̃? pʊ?]	Stressed. Vowel alteration. No
		final nasal. Open juncture with
		glottal stop. No assimilation
7. "And your money <u>can go</u> "		Inaudible

Utterance	Realisation	Description of Phenomena
1. "Now I <u>can't pl play</u>	[khām? pl pleıj]	Bilabial assimilation. False start
anymore this"		
2. "You know, he <u>can get</u> on	['k <sup>h</sup> æn 'gɪt]	Stressed, but not tonic. No
there"		assimilation. Open juncture
3. "We <u>can make</u> stickers	['k <sup>h</sup> æ̃(Nas) mei?k]	Stressed. Final nasal inaudible.
now"		Unclassifiable
4. "I <u>can't get</u> the flower"	[khān? 'ge?]	Unstressed. Close juncture with
		glottal stop. No assimilation
5. "Oh this one <u>can't get</u> off	[k <sup>h</sup> än? gɛt]	Unstressed. Close juncture with
that bee"		glottal stop. No assimilation
6. "Oh I <u>can't get</u> off that one"	[k <sup>h</sup> ãŋ? gẹ <u>t]</u>	Unstressed. Velar assimilation
7. * " <u>can't get off</u> "	[Gã? gɛd]	Unstressed. No final nasal. Close
		juncture. No assimilation
8. * "I <u>can't get</u> off"	[khẳn? get]	Unstressed. Close juncture with
		glottal stop. No assimilation
9. * "I need (a)nother batteries	[k <sup>h</sup> ãn gɛt]	Close juncture with final nasal.
I can't get out of here"		No assimilation. Possibly two
		sentences

# 4.4. Tables showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 3;3

Utterance	Realisation	Description of Phenomena
1. "This <u>can be a</u> train	[kʰæ̃ bįj]	Unstressed. Close juncture
spotter"		with no final nasal. No
		assimilation
2. "But I can't get it in"	['khãn gɛt]	Close juncture with final
		nasal. No assimilation
3. "Two of them <u>can go</u> in	[k <sup>h</sup> ãŋ gɛ]	Unstressed. Velar
there"		assimilation
4. "Don't know why he	['khãn gɛt]	Close juncture with final
can't get out today"		nasal. No assimilation
5. * "Can't go back back	[ˈkãn bəʊ]	Close juncture with final
again"		nasal. No assimilation.
		Unusual articulation
6. "You <u>can be</u> Bob the	[k <sup>h</sup> ẫn bi]	Unstressed. No vowel
Builder"		reduction. Open juncture
7. "I <u>can be a</u> policeman"	[k <sup>h</sup> æm bij]	Unstressed. No vowel
		reduction. Bilabial
		assimilation
8. "And then, we <u>can play</u>	[k <sup>h</sup> æ̃n 'pleɪ]	Unstressed. No vowel
with a tractor"		reduction. Open juncture

Table 12. Thomas's Realisations of Can and Can't at Potentia	l Assimilation Sites at Age 3;3;3
--	-----------------------------------

Utterance	Realisation	Description of Phenomena	
1. "I <u>can't get this one out</u> "	[khãŋ? ge?]	Unstressed. Velar	
		assimilation. Also [ŋ] word-	
		finally in one	
2. "(Be)cause I can't get	['k <sup>h</sup> ã? gɛ?]	Stressed. Close juncture with	
this bit out"		glottal stop. No assimilation	
3. "I <u>can be</u> ice-cream		No linking between	
man"		transcript and sound file	

Table 13. Thomas'	s Realisations of	Can and	Can't	at Age 3;3;4
-------------------	-------------------	---------	-------	--------------

Utterance	Realisation	Description of Phenomena
1. "It's start shouting, that's mean	[khãn? hiəv]	Unstressed. Close juncture with
you <u>can't hear</u> it that's why"		glottal stop
2. "No, I <u>can do it</u> on my own"	['xæn duw]	Stressed, but not tonic. Initial
		friction owing to weak articulation
3. "Course we <u>can</u> "	[k <sup>h</sup> ã]	No final nasal
4. "Then we <u>can eat a jelly</u> "	[kņ ?it]	Weak form
5. "I take, I <u>can take</u> it"	[k <sup>h</sup> æn teɪk]	Stressed. Syllable-timed.
		Recording too distorted to hear
		vowel clearly
6. "There go flowers you can have	[k <sup>h</sup> æ̃n hæv]	Unstressed. No vowel reduction
a drink now, () can't you?"		
7. "There go flowers you can have	['kʰãn? jə]	Stressed. Close juncture with
a drink now, () <u>Can't you</u> "		glottal stop. Delayed tag question
		following utterance 6
8. "Course we <u>can</u> "	['qxiæn]	Stressed. Word-initial uvular
		articulation
9. "I <u>can see one</u> "	[kxǽ 'si]	Unstressed. Word-initial velar
		affrication
10. "Course <u>they can</u> "	['k <sup>j</sup> ą̃]	Stressed. No word-final nasal
11. * "Then you <u>can be</u> a Daddy"	[k <sup>h</sup> ã(Nas) bij]	Unstressed. No vowel reduction.
		Indeterminate final nasal
12. "I can do a bit of sweeping"		Recording too distorted for
		transcription
13. "Then I can (.) just put on one	$[k^{h}\tilde{e}n(.)d_{3}$	Unstressed. Vowel alteration
stalk, then can sweep it/sweep		
in/sweeping"		
14. "Then I can (.) just put on one	[k <sup>h</sup> ữn	Unstressed. No vowel reduction
stalk, then can sweep it/sweep	'swipı(Nas)]	
in/sweeping"		
15. "I <u>can do i</u> t"	[k <sup>h</sup> @n 'duw]	Unstressed. No vowel reduction
16. * "I <u>can do</u> , I can do it"	['kʰ̃æn dð]	Stressed
17. * "I can do, I <u>can do</u> it"	['kʰ̃æ̃n: duw]	Stressed. Open juncture
18. "I <u>can</u> "	['k <sup>h</sup> æ̈́'n]	Stressed
19. "There now can sweep up and	[k <sup>h</sup> æn swip]	Unstressed. No vowel reduction
down"	_	
20. "Your can't pinch it"	[kẵm 'pɪnt∫]	Unstressed. Bilabial assimilation
	[1-h×9][4	United and Dental officiantian of
21. "Oh daft, I <u>can't say mouth</u> "	[khặn? 't̪s̪ei]	Unstressed. Dental affrication at

22. "I can't walk"	[kẫn ˈwʊ?k]	Unstressed. Close juncture with
		final nasal
23. "And then, I can't go on the		Recording too distorted for
high street"		accurate transcription
24. " <u>Can have two</u> "	['kʰæ̃n hæv]	Stressed, but not tonic
25. "You <u>can let g</u> o"	[k <sup>h</sup> æ̃n lɛ?]	Unstressed. No vowel reduction
26. "You <u>can hold</u> that way"	[k <sup>h</sup> äd həʊl]	Partial vowel reduction towards
		weak form with additional
		hyponasality
27. "No, I <u>can't see</u> one"	[khãn ˈtsi]	Unstressed. Affrication at word
		boundary
28. "I <u>can't () xxx</u> "	[ˈkɑ̃̃n]	Stressed. Short vowel. Final nasal.
		Remainder of utterance inaudible
29. "And you can hold xxx"	['kʰæ̃n 'həʊł]	Unstressed, but not tonic
30. " <u>You can hold the other one</u> "	[juw æ̃n	Unstressed. No vowel reduction.
	həʊłd]	No initial consonant
31. "We <u>can do</u> it, just on my	[k <sup>h</sup> æn duw]	Unstressed. No vowel reduction
own"		
32. "Course I <u>can/can't</u> "	[k <sup>h</sup> ãn]	Whispered
33. * "Oh no, I need that because	[kæ̃m mï]	Unstressed. No vowel reduction.
you can be the lady looking for		Bilabial assimilation with
number one"		gemination
34. "You <u>can be lady</u> "		Recording too distorted for
		accurate transcription
35. "Mummy <u>can walk</u> "	[khãm 'wok]	Unstressed. No vowel reduction.
		Bilabial assimilation prior to [w]
36. "You <u>can be a</u> postman	[ɣæ̃m bij]	Unstressed. No vowel reduction.
changing it"		Weak initial consonant
		articulation. Bilabial assimilation
37. * "I <u>can be</u> a parcel"	[kʰæ̃m bij]	Unstressed. No vowel reduction.
		Bilabial assimilation

Utterance	Realisation	Description of Phenomena
1. "Then it <u>can be my</u> fire	[k <sup>h</sup> um bi]	Unstressed. Vowel alteration. Vowel
station"		alteration. Bilabial assimilation
2. * "Erm, you think he <u>can</u>	['kʰ̃æ̃n (.) 'kvaij]	Stressed, but not tonic. Pause at
(.) cry and he get his hat		word boundary. No assimilation
back?"		
3. "Erm you <u>can be</u> a girl	[k <sup>h</sup> æ̃mi]	Unstressed. No vowel reduction.
(.) fast asleep"		Possibly combined regressive
		bilabial assimilation and progressive
		nasal assimilation
4. * "Ah you <u>can</u> , I can be,	[ˈɣ쬹̃m]	Stressed. False start with evidence of
you can be a bear"		bilabial assimilation
5. * "Ah you can, I <u>can be</u> ,	[ˈkʰæ̃m ˈbi]	Stressed. Syllable-timed. Bilabial
you can be a bear"		assimilation
6. * "Ah you can, I can be,	[k <sup>h</sup> æ̃m bij]	Unstressed. No vowel reduction.
you <u>can be</u> a bear"		Bilabial assimilation
7. "You <u>can be</u> , I can be a	[k <sup>h</sup> ǽ'mi]	Unstressed. No vowel reduction.
girl"		Regressive bilabial assimilation,
		progressive nasal assimilation or a
		combination of both. Revision
		following false start
8. "You can be, I <u>can be a</u>	[k <sup>h</sup> ỡn bij]	Unstressed. No vowel reduction.
girl"		Open juncture revision

Table 14. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;3;6

## Table 15. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;3;7

Utterance	Realisation	Description of Phenomena
1. "xxx Can get that one"		Recording too faint for accurate
		transcription
2. "You <u>can come</u> "	['kʰæ̃n 'kʲភ̈̃ːm]	Stressed. Syllable-timed. Open
		juncture
3. "You <u>can be Mummy</u>	[kʰæ̃n bị]	Stressed. Syllable-timed. Open
elephant"		juncture

# 4.5. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 3;4

Utterance	Realisation	Description of Phenomena
1. "And this <u>can go</u> in the recycling, and this can go in recycling"	[ˈkʰæ̃ŋ ˈgəʊ]	Stressed. Velar assimilation
2. "And this can go in the recycling, and this <u>can go</u> in recycling"	[k <sup>h</sup> ᾶŋ gəʊ]	Unstressed. No vowel reduction. Velar assimilation
3. * "It means dustbin wagons just <u>can't go</u> through it, and cars, and big dustbin wagons"	[k <sup>h</sup> ãn gọu]	Unstressed. Close juncture with final nasal. No assimilation
4. "You said, you can, you <u>can keep</u> that ever and ever"	[k <sup>h</sup> ỡn 'k <sup>jh</sup> ip]	Unstressed. No vowel reduction. Open juncture
5. "I <u>can mess</u> hair"	[k <sup>h</sup> ữn mɛs]	Unstressed. No vowel reduction. Open juncture, but nasals close together and almost indistinguishable. Mother repeats with same realisation of nasals, but with weak form [kn]
6. "Reversing yes it <u>can</u> <u>move</u> "	['k <sup>h</sup> æ̃m 'mu:v]	Stressed. Bilabial assimilation

#### Table 16. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;4;0

# Table 17. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;4;1

Utterance	Realisation	Description of Phenomena
1. "I <u>can't get you any</u>	['kʰæ̃ŋ gɛt]	Stressed. Velar assimilation
sixpence"		
2. "Mummy, you go, you	[kʰæm bij]	Unstressed. No vowel reduction.
can be a counter/counting		Bilabial assimilation
now"		
3. "Then, I <u>can make you</u>		No linking between transcript and
cup of tea"		audio file
Utterance	Realisation	Description of Phenomena
------------------------------------	------------------------------	---
1. "You (pre)tend that's	[ˈkãnʔ ju]	Stressed. Close juncture with glottal stop
money, <u>can't you</u> ?"		
2. "xxx you <u>can</u> "	['kʰǎ̃]	Stressed. No final nasal
3. "Then you <u>can put</u> it in	[kæm put]	Unstressed. No vowel reduction. Bilabial
here"		assimilation
4. "You <u>can have little big</u>	[kæn hæv]	Unstressed. No vowel reduction.
one"		Unaspirated initial consonant
5. " <u>Can I roll it?</u> "	['kʰæ̃n '?aɪ]	Stressed. Syllable-timed Words
		separated by glottal stop
6. "Yes we <u>can</u> "	['kʰæ̃n]	Stressed. Formula from Bob the Builder
7. "We <u>can</u> "	['cæn]	Stressed. Initial palatal plosive. Formula
		from Bob the Builder
8. "I <u>can mix i</u> t"	[k <sup>jh</sup> æm 'mĩks]	Unstressed.No vowel reduction. Bilabial
		assimilation. Mother repeats without
		assimilation
9. "I <u>can roll i</u> t"	['k <sup>hjh</sup> ậ̃n vəʊl]	Stressed, but not tonic
10. " <u>Can we fix it</u> "	['hæn wi]	Stressed, but not tonic. Weak initial
		consonant articulation. Formula from
		Bob the Builder
11. "Yes we <u>can I'm g</u> onna	['kʰä̈́n 'aĩm]	Stressed. Slightly hyponasal
do it"		
12. * "And then, just on	[k <sup>h</sup> æ̃n	Unstressed. No vowel reduction
here, then, can sprinkle it	'spwi>klit]	
can't you"		
13. * "And then, just here,	[kŏ ˈju]	Unstressed. Vowel alteration
then, can sprinkle it can't		
<u>you</u> ?"		
14. "I <u>can't do</u> a flower"	[k <sup>h</sup> ạn? du]	Unstressed. Vowel in can't whispered
15. * " <u>Can maybe</u> do some	[xæ̃m ˈmĕibi]	Unstressed. No vowel reductio. Bilabial
more"		assimilation producing germination
16. "I <u>can't</u> "	['kʰãnːț]	Stressed. Very quiet final /t/ articulation
17. * "And I <u>can</u> "	['kʰæ̃m]	Stressed
18. "Now what I can do	[k <sup>h</sup> æ̃n 'du]	Unstressed. No vowel reduction. Final
that/I can go on there"		[m]
19. "Now what I can do	['kʰ̃ǽn (.) ɣəʊw]	Unstressed. Pause at word boundary.
that/I can go on there"		Open juncture

20. "You <u>can eat (th)emcan</u>	 No linking between transcript and audio
<u>you a blue?"</u>	file
21. "You <u>can have this</u>	 No linking between transcript and audio
one"	file
22. "Of course I can"	 No linking between transcript and audio
	file
23. "Course you <u>can</u> "	 No linking between transcript and audio
	file

Utterance	Realisation	Description of Phenomena
1. "Mummy you <u>can be a xxx</u> "	[kʰæ̃m ˈbij]	Unstressed. No vowel reduction.
		Bilabial assimilation
2. "Mummy, you <u>can be a xxx</u>	[kʰæ̃m ˈbij]	Unstressed. No vowel reduction.
(one syllable)"		Bilabial assimilation
3. "Bits and bobs, there they <u>can</u>		Recording too distorted for accurate
<u>go</u> xxx"		transcription
4. "Because over here checking	['kʰæ̃n (.) gəʊ]	Stressed. Pause and breath at word
the wagon <u>can go</u> fast"		boundary, creating open juncture
5. "And that's why I'm checking	[xận gəu]	Stressed. No vowel reduction. Open
it it <u>can go</u> fast look!"		juncture
6. "It can, it still <u>can broom</u> "	[khãm buữm]	Unstressed. No vowel reduction.
		Bilabial assimilation
7. "I <u>can collect</u> it now"	['kʰæ̃ŋ kʰɬʰlɛ?tʰ]	Stressed, but not tonic. Velar
		assimilation
8. * "I <u>can be a</u> low wagon,	[K <sup>h</sup> ẫm mij]	Unstressed. No vowel reduction.
driving a big man (be)cause I'm		Bilabial assimilation and progressive
a dustbin xxx"		nasal assimilation, producing
		gemination
9. * "I <u>can be a xxx</u> you can be a	[k <sup>h</sup> ãm mi]	Unstressed. No vowel reduction.
fireman"		Bilabial assimilation combined with
		possible progressive nasal
		assimilation, creating gemination
10. * "I can be a xxx you <u>can be</u>	[xễm bij]	Unstressed. No vowel reduction.
a fireman"		Vowel alteration and weak initial
		consonant articulation. Bilabial
		assimilation
11. "It <u>can be</u> a fire it can be a	[k <sup>h</sup> æ̃m bij]	Unstressed. No vowel reduction.
fireman"		Bilabial assimilation
12. "It can be a fire it <u>can be a</u>	[k <sup>h</sup> æ̃m bij]	Unstressed. No vowel reduction.
fireman"		Bilabial assimilation

Utterance	Realisation	Description of Phenomena
1. "You <u>can be</u> "	[k <sup>h</sup> æ̃m <sup>'</sup> bi]	Unstressed. No vowel reduction.
		Bilabial assimilation
2. "I <u>can't put it up</u> "	['khān? pud]	Stressed. Close juncture with glottal
		stop

# 4.6. Tables showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 3;5

Utterance	Realisation	Description of Phenomena
1. "You <u>can be</u> , erm a talking	[k <sup>h</sup> æ̃m bi]	Unstressed. No vowel reduction.
man"		Bilabial assimilation
2. "You <u>can be a talking man</u> "	[k <sup>h</sup> æ̃n bi]	Unstressed. No vowel reduction. Open
		juncture. Repetition
3. "Mummy, telephone <u>can be</u>	[k <sup>h</sup> æ̃n bi]	Unstressed. No vowel reduction. Open
ringing"		juncture
4. "No I <u>can't (be)cause</u> I'm a	['kʰãnʔ kɒẓ]	Stressed. Close juncture with glottal
busy man"		stop

Table 21. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;5;2

#### Table 22. Thomas's Realisations of Can and Can't at Age 3;5;3

Utterance	Realisation	Description of Phenomena
1. * "And I can eat (th)em"	[k <sup>h</sup> æ̃n 'iț]	Unstressed. No vowel reduction
2. * "And put (th)em in a big	[k <sup>h</sup> ãn }isõm]	Unstressed. No vowel reduction
box and then you can eat		
<u>'em/some</u> "		

## Table 23. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;5;4

Utterance	Realisation	Description of Phenomena
1. "Mummy, you <u>can be sign</u>	[k <sup>wh</sup> ∰m bi]	Unstressed. No vowel reduction.
saying no post lorries		Vowel alteration. Bilabial assimilation
allowed"		
2. "No I <u>can't (be)cause I</u>	['kʰãn? kɒẓ]	Stressed. Close juncture with glottal
didn't fit a trailers on the back		stop. Possibly eating
of the tractors"		
3. "We have a drink you <u>can</u>	[k <sup>h</sup> æ̃mij]	Stressed. No vowel reduction. Bilabial
<u>be</u> a cof a coffee (ma)chine"		assimilation, possibly combined with
		progressive nasal assimilation
4. "You can, I <u>can press</u> a	[khãm pues]	Unstressed. No vowel reduction.
button"		Bilabial assimilation
5. "No you <u>can't (be)cause</u> it's	['khãn? kpz]	Stressed. Close juncture with glottal
my job for a day"		stop
6. "Er this man is opening a	[k <sup>h</sup> æŋ gɛ?]	Unstressed. No vowel reduction. Velar
field and then a big wagon can		assimilation
get past"		

## Table 24. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;5;5

Utterance	Realisation	Description of Phenomena
1. "Mummy, you (0.5) you	[k <sup>h</sup> ỡn bi]	Unstressed. No vowel reduction. Open
can be naughty"		juncture
2. "Yeah, I <u>can be</u> a	[țə̃m bi]	Weak form with initial dentalised
policeman"		alveolar plosive. Bilabial assimilation
3. " <u>This can be a police</u>	[ısِæ̃m bij]	Unstressed. No vowel reduction. No
house"		initial consonant, so final /s/ in this
		became ambisyllabic. Bilabial
		assimilation
4. "This <u>can be a police</u>	[k <sup>h</sup> æ̃m b <u>ij]</u>	Unstressed. No vowel reduction.
house"		Bilabial assimilation
5. "You <u>can be a</u> s, you can	[k <sup>h</sup> 쬹m bij]	Unstressed. No vowel reduction.
be a sweet punnet"		Bilabial assimilation
6. "You can be a s, you <u>can</u>	[k <sup>h</sup> æ̃m bij]	Unstressed. No vowel reduction.
<u>be</u> a sweet punnet"		Bilabial assimilation
7. * "And you can't, (.) you	$[{}^{^{l}}k^{h}\tilde{a}n^{j}(){}^{^{l}}g$ əu]	Stressed, but not tonic. Pause at word
<u>can, (.) go (</u> ) call for		boundary. Possible evidence of
policeman can't you?"		assimilation in palatalisation of final
		nasal
8. "You <u>can be (</u> .) you can	[kə̃m bi]	Weak form. Bilabial assimilation
get this"		
9. "You can be, (.) you <u>can</u>	[kậŋ ˈgɛ?]	Unstressed. Vowel alteration. Velar
<u>get</u> this"		assimilation
10. "Mummy, you <u>can go</u>	[k <sup>h</sup> ỡn 'goŭ]	Unstressed. No vowel alteration. Open
(.) nee-na nee-na can't		juncture
you?"		
11. "I say you <u>can't get</u> out	[kʰɑ̃n gɪt̪]	Unstressed. Close juncture with final
snake"		nasal
12. " <u>Can't get out</u> "	[kã? kœṯ]	Unstressed. Close juncture with no
		final nasal. Unusual form of get
13. "You <u>can be</u> snake"	[kæ̃m b̃i']	Unstressed. No vowel reduction.
		Bilabial assimilation with possible
		evidence of progressive nasal
		assimilation
14. "You <u>can go</u> out to	[kə̃ gəu]	Weak form. Close juncture with no
play"	-	final nasal. No assimilation. Falsetto
		voice quality throughout utterance
15. "Er bathroom <u>can be on</u>		No linking between transcript and
fire"		audio file

# 4.7. Tables showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 3;6

Utterance	Realisation	Description of Phenomena
1. "You <u>can be</u> Missus	[k <sup>h</sup> æ̃m bi]	Unstressed. No vowel reduction.
Mayberry can't you"		Bilabial assimilation
2. "Then you <u>can get</u> on,	[k <sup>h</sup> æŋ geț]]	Unstressed. No vowel reduction. Velar
() shall we?"		assimilation
3. "Anybody <u>can get on</u> "	['kʰ̃æ̃n gɛt̪]	Stressed, but not tonic. Open juncture
4. "You <u>can keep (</u> th)em"	[k <sup>h</sup> 쬹n 'k <sup>h</sup> ip]	Unstressed. No vowel reduction. Open
		juncture
5. "You want anymore, I	['kʰ죭̃m pʰʊd]	Unstressed. No vowel reduction.
can put it back where it		Bilabial assimilation
goes"		
6. "You <u>can be</u> a driver"	[k <sup>h</sup> ῦm bij]	Unstressed. Vowel alteration. Bilabial
		assimilation
7. "You <u>can be</u> a driver	[kʰæ̃m bij]	Unstressed. No vowel reduction.
can't you"		Bilabial assimilation
8. "'I <u>'can 'be '</u> one and you	['kʰæ̃m 'beɪ]	Stressed. No vowel alteration. Bilabial
can sit next to me I can		assimilation despite slow speech with
(0.5) be a driver"		equal stress on each word throughout
		utterance
9. "I can be one and you	$[k^{h}\tilde{a}n (0.5) bij]$	Unstressed. No vowel reduction. Still
can (0.5) sit next to me, I		slow and careful. Open juncture
<u>can be</u> a driver"		
10,40	rih h (Divi)	
10. " <u>Can put it on can I put</u>	$[k^h n p^h v(Pl,Vls)]$	Weak form. Open juncture
it on?"	['khān? gəu]	Whingoing/aming Stragged Class
11. "I <u>can't go</u> xxx"		Whingeing/crying. Stressed. Close
		juncture with glottal stop. No assimilation
12 "Mummy this can be a	[kʰẵ̃m ˈbiːj]	Unstressed. Extra short vowel with
12. "Mummy this <u>can be a</u> work can't it?"		
		partial reduction towards week form. Bilabial assimilation
13. "You can be a teacher	[yum hii]	Unstressed. No vowel reduction.
	[xum bij]	Consonant lenition and vowel
can't you?"		alteration. Bilabial assimilation
		anciation. Dilabiai assimilation

#### Table 25. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;6;0

## Table 26. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;6;1

Utterance	Realisation	Description of Phenomena
1. "But you <u>can't get</u> out"	[k <sup>h</sup> ãŋ gɛț]	Unstressed. Velar assimilation
2. "When I'm better I can	['khãnŋ 'gețs]	Stressed, but not tonic. Lengthened
<u>get</u> it"		nasal with audible transition from
		alveolar to velar articulation
3. "But I can't (be)cause	['k <sup>h</sup> ãn kpz]	Stressed. Continued voicing across
I'm"		word boundary. No assimilation
4. "Then I can get past"	[khẳỹ ge?]	Unstressed. Short vowel. Velar
		assimilation

#### Table 27. Thomas's Realisations of Can and Can't at Age 3;6;2

Utterance	Realisation	Description of Phenomena
1. "It can fly on its own, but it	['kʰæ̃n 'flaɪ]	Stressed
doesn't fit in there"		
2. "I pull (th)em off <u>can we</u> "	['k <sup>h</sup> æ̃m wi]	Stressed. Bilabial assimilation
		prior to word-initial [w]
3. "I can't tell you about it"	$[k^{h} \partial h \tilde{a}::nt () te]$	Stressed. Open juncture with pause
		at word boundary
4. * "Teletubbies now can I	[k <sup>h</sup> ņ aɪ]	Weak form
watch?"		
5. "I <u>can't</u> "	['k <sup>h</sup> hãn]	Stressed. Strongly aspirated
6. "I got I <u>can't reach</u> a/her	[ˈkʰãʲn vitʃ]	Stressed. Close juncture with no
police helmet"		final consonant
7. "And you can't go open again	[ˈkʰãŋ gəʊ]	Stressed. Velar assimilation
(be)cause I lock you all up"		
8. * "And you <u>can stay</u> there for	[k <sup>h</sup> ą̃ 'stei]	Weak form with no final nasal
ever and ever and ever and		
ever"		
9. "So we lock you all up and		No linking between transcript and
you <u>can't go</u> anywhere again or		audio file
(a)gain"		
10. "You don't say anything	[k <sup>h</sup> æ̃n 'k <sup>j</sup> ib <sup>¬</sup> ]	Unstressed. No vowel reduction.
naughty, you <u>can keep</u> this		No assimilation.
helmet"		
11. "When we out of the shops	['kʰæ̃nə̆ 'gʲɛt̪]	Stressed. Open juncture with slight
you <u>can get</u> it again"		epenthesis
12. "Course you <u>can</u> "	['k̥ʰ̃æn]	Stressed. Lenis initial consonant
		articulation
13. "You <u>can have</u> you know	['k <sup>h</sup> æn 'hæ?]	Stressed
what?"		
14. "You <u>can have a pink one</u> "	['k <sup>h</sup> æ̃n hæβ]	Unstressed
15. * I <u>can (.) keep</u> , (.) I can have	$[{}^{'}k^{h}\tilde{e}n:: (.) {}^{'}k^{j}i]$	Stressed. Short vowel and long
that one"		nasal. Pause at word boundary. No
		assimilation. Open juncture
16. * "I can (.) keep (.) I <u>can</u>	[k <sup>h</sup> æ̃m hæv]	Unstressed. No vowel reduction.
have that one"		Final [m].
17. "Please <u>can I</u> have my police	[k <sup>h</sup> æ̃n a]	Unstressed. No vowel reduction
helmet?"		
18. "You <u>can put</u> that one out	[k <sup>h</sup> äm pu?]	Unstressed. Partial vowel
near buttons I can put it out near		reduction towards weak form.
telly"		Bilabial assimilation

19. "You can put that one out near buttons I can put it out near	[k <sup>h</sup> ỡm pur]	Unstressed. No vowel reduction. Bilabial assimilation
telly"		
20. "And you <u>can have mine</u> for	[k <sup>h</sup> ữ hæv]	Unstressed. No vowel reduction.
little bit"		No final nasal
21. "You <u>can put</u> those (.) you	[k <sup>h</sup> æ̃m 'p <sup>h</sup> u?]	Unstressed. No vowel reduction.
can put that (.) naughty monster		Bilabial assimilation
in the oven"		
22. "You can put those (.) you	[kỡm p <sup>h</sup> ư?	Unstressed. No vowel reduction.
can put that (.) naughty monster		Bilabial assimilation
in the oven"		
23. "I <u>can put</u> this one in the	[kʰṃ pʰʊʔ]	Weak form. Bilabial assimilation
oven"		
24. "Now <u>can I</u> watch the telly	[kə̃n ə]	Weak form
now?"		
25. * "Then I can (.) change	[k <sup>h</sup> ằ̃n <sup>'</sup> t∫er:ndʒ]	Unstressed. Short vowel. No vowel
XXX"		reduction
26. "You <u>can build</u> that I can	[kʰə̃m ˈbɪʊd̯]	Weak form. Bilabial assimilation
pinch it"		
27. "You can build that I can	[kæ̃m ′pĩnt∫]	Unstressed. No vowel reduction.
pinch it"		Bilabial assimilation
28. "You <u>can build</u> it I can pinch	[khẳm bud]	Unstressed. Partial vowel
it"		reduction towards weak form.
		Bilabial assimilation
29. "You can build it I <u>can pinch</u>	[k <sup>h</sup> æ̃m 'p <sup>h</sup> ĩnt∫]	Unstressed. No vowel reduction.
it"		Bilabial assimilation
30. "Letter side then I <u>can pinch</u>	[k <sup>h</sup> ∰m 'pĩnt∫]	Unstressed. Some vowel reduction
it"		towards weak form. Bilabial
		assimilation
31. "Please you <u>can I</u> watch	[ˈkʰæ̃ˈn æ]	Stressed
telly?"		
32. " <u>Can we have a look?</u> "	[k <sup>h</sup> ễ wī]	Unstressed. No vowel reduction
33. "Can I have one?"	$[K^{h}\tilde{a}n$ 'aı]	Unstressed. No vowel reduction.
		Whingeing
34. "I gonna find I <u>can see</u> some more"	[xą̃ si]	Weak form
35. "Oh I can find another blue"	[k <sup>h</sup> æ̃m faĩnd]	Unstressed. No vowel reduction.
		Labiodental assimilation
36. "You <u>can have that bit there</u> "	[k <sup>h</sup> ữ hæv]	Unstressed. No vowel reduction.
		No final nasal
37. * "And normally when a	[k <sup>h</sup> ẵn]	Unstressed. Short vowel. No vowel
clock gets to bottom <u>can</u> "		reduction
clock gets to bottom can		reduction

Table 28. Thomas's Realisations of Car	and Can't at Potential Assimilation Sites at Age 3;6;3
--	--

Utterance	Realisation	Description of Phenomena
1. "Just me <u>can pull</u> it off"	['kʰæ̃m pʊl]	Stressed, but not tonic. Bilabial
		assimilation
2. "Then I can keep that one."	[k <sup>h</sup> ãn k <sup>j</sup> ip]	Unstressed. No vowel reduction.
		Open juncture
3. "You <u>can be</u> a shop seller	[kə̃m bı]	Weak form. bilabial assimilation
now"		
4. "There you go, you can be	[k <sup>h</sup> ð ŵi]	Weak form with no final
seller now"		consonant. No assimilation
5. "And you <u>can be</u> , I can be a	[kə̃m bịː]	Weak form. Bilabial assimilation
customer."		
6. "And you <u>can be</u> , I <u>can be</u> a	[kə̃m bı]	Weak form. Bilabial assimilation
customer."		
7. "Then you know what	[ˈkʰæ̃ŋ gəʊ]	Unstressed, but not tonic. Velar
Mummy? You <u>can go</u> a bridge"		assimilation
8. "I <u>can be a</u> co, I can be a man	[kʰə̃m bɪj]	Weak form. Bilabial assimilation.
<u>can't I</u> ?"		False start
9. "I can be a co, I <u>can be a</u> man	[kʰæ̃n bij]	Unstressed. No vowel reduction.
<u>can't I</u> ?"		Open juncture revision
10. "I <u>can't Mum</u> "	['xa:::n? mu]	Stressed. Close juncture with
		glottal stop. No assimilation.
		Creaky voice and hyponasal
		because crying
11. * "I <u>can't get</u> any no"	[khãŋ? gẹt]	Unstressed. Velar assimilation

Table 29. Thomas's Realisations of Can and Can't at Pote	ential Assimilation Sites at Age 3;6;4
--	--

Utterance	Realisation	Description of Phenomena
1. * "Erm you <u>can put</u> it through	[khäm 'put]	Unstressed. Partial vowel reduction
that little slot won't you?"		towards weak form. Bilabial
		assimilation
2. "You <u>can put/post</u> it through	[khām 'pus]	Unstressed. No vowel reduction.
there and I can post it back"		Bilabial assimilation
3. "You can put/post it through	[kæ̃m pəʊst]	Unstressed. No vowel reduction.
there and I can post it back"		Bilabial assimilation.
4. * "Then you <u>can get</u> it"	[k <sup>h</sup> ữn gɛt̪]	Unstressed. No vowel reduction.
		Open juncture
5. "Then I you <u>can pick</u> it up"	[khãm phik]	Unstressed. No vowel reduction.
		Bilabial assimilation
6. "And then you <u>can catch</u>	[k <sup>h</sup> õŋ 'k <sup>h</sup> æt∫]	Weak form. Velar assimilation
them"		
7. "And then, (.) I <u>can be a</u>	[kʰ죭̃m bij]	Unstressed. Partial vowel reduction
seller-man"		towards weak form. Bilabial
		assimilation
8. * "You can slot (th)em	[k <sup>h</sup> æ̃m pus̯]	Unstressed. No vowel reduction.
through there I can post (th)em		Bilabial assimilation
in"		
9. * "Then I <u>can be</u> , I can be a	[kæ̃m bijặ̃]	Unstressed. No vowel reduction.
seller-man can't you?"		Bilabial assimilation
10. * "Then I can be, I <u>can be a</u>	[kæ̃m bij]	Unstressed. No vowel reduction.
seller-man can't you?"		Bilabial assimilation

# 4.8. Tables showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 3;7

Utterance	Realisation	Description of Phenomena
1. * "Mummy I <u>can be</u> a man (.) do (.) it	[kæn b <u>ij]</u>	Unstressed. No vowel
happy birthday to"		reduction. Open juncture
2. "You can have that, you <u>can be</u>	[kậ̃m bi]	Weak form. Bilabial
Mummy, (.) and $(0.5)$ you can put the		assimilation
light in there and I can be a man to sell something"		
3. "You can have that, you can be	[k <sup>h</sup> ỡm p <sup>h</sup> ự?]	Unstressed. No vowel
Mummy, (.) and (0.5) you <u>can put</u> the		reduction. Bilabial
• • • • • • • •		assimilation
light in there and I can be a man to sell something"		assimilation
4. "You can have that, you can be	[k <sup>h</sup> ằm bij]	Unstressed. Partial vowel
Mummy, (.) and (0.5) you can put the		reduction towards weak
light in there and I can be a man to sell		form. Bilabial assimilation
something"		
5. "I can be a man a shopkeeper couldn't	[k̈́æm bij]	Partial vowel reduction
I?"		towards weak form. Bilabial
		assimilation
6. * "Mummy, you can put it through	[kæ̃ put <sup>h</sup> ]	Unstressed. Partial vowel
there and say (.) I shout toot toot"		reduction towards weak
		form. Bilabial assimilation
7. "You <u>can't get me can you?"</u>	[k <sup>wh</sup> ạŋ? ge?]	Unstressed. Creaky voice.
		Velar assimilation
8. * "Ah you <u>can't get</u> me"	[ˈkẵŋ gɛ?]	Unstressed. Velar
		assimilation
9. "You <u>can't catch me</u> (be)cause I'm	[kãŋ kæᢩt∫]	Unstressed. Velar
eating your nips"	-	assimilation
10. "Mummy, () oh I can't get my		Untranscribable owing to
ladders"		extraneous noise
11. "xxx do my nails, then you can you	[kʰæ̃ŋ kʰʊr]	Unstressed, but not tonic.
can cut it off you can () do it at home"		Velar assimilation

## Table 31. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;7;2

Utterance	Realisation	Description of Phenomena
1. * " <u>Can't catch me (be)cause</u>	[k <sup>h</sup> ãŋ? k <sup>h</sup> ?æ?]	Unstressed. Velar assimilation
I'm the pooey-man"		
2. "You <u>can't catch</u> me	[(C,Vls)ãŋ kæt∫]	Unstressed. Velar assimilation
(be)cause I'm a gingerbread		
pooey-man"		
3. * " <u>Can't catch</u> me	[khān? ?æ(C,Vls)	Unstressed. Open juncture with
(be)cause) I'm a gingerbread	(C,Vls)æ?]	glottal stop. Unusual phonetic
candle"		form
4. "I <u>can't (.) Mum</u> "	['khānt (.) Mum]	Stressed. Open juncture with
		pause
5. * "You <u>can't catch me</u>	[k <sup>h</sup> ãŋ? kxæt∫]	Unstressed. Velar assimilation
(be)cause I'm the/a		
gingerbread lady"		
6. "Mummy I <u>can't go t</u> o	[khãn? gəu]	Unstressed. Close juncture with
sleep"		glottal stop. Whingeing
7. "Mummy, you <u>can be</u> sly	[kxẽm bi]	Unstressed. Vowel alteration.
fox can'tn't you?"		Bilabial assimilation
8. "Mummy, this <u>can be</u> one	[k <sup>h</sup> 쬹̃m bɪ]	Unstressed. No vowel reduction.
there"		Bilabial assimilation
9. * "You <u>can</u> , (0.5) you can	[khẳm:] [khẳm beik]	Unstressed. Slight vowel
bake_something"		reduction. Bilabial assimilation.
		Also evidence of anticipatory
		bilabial assimilation in false start
10. "I can bake something"	[ỹæm 'bɛ·k]	Unstressed. No vowel reduction.
		Bilabial assimilation
11. "You <u>can't catch me</u>	[ˈkʰãŋ? kætʃ]	Stressed. Velar assimilation
(be)cause I'm a sausage-man"		
12. "Mummy, (.) you <u>can be</u>	[kʰə̃m bi]	Weak form. Bilabial assimilation
next Mummy say "stop		
sausage-man""		
13. "Mummy, you <u>can cross</u>	[kʰə̃ŋ ˈkuɒs]	Weak form. Velar assimilation
the road with your cat can'tn't		
you?"		
14. "Mummy, you <u>can put</u> it	[k <sup>h</sup> æ̃m pur]	Unstressed. No vowel reduction.
there Mummy"		Bilabial assimilation
15. * "Mummy, you can roll	[g <sup>j</sup> æ̃m ˈp̪ĩntʃ]	Unstressed. No vowel reduction.
some out and I can pinch it"		Bilabial assimilation. Actually
		labiodental plosive at onset of
		<i>pinch</i> , but lacking symbol

16. "Mummy, (.) you can roll	[k <sup>h</sup> 쬹̃m 'pĩnt∫]	Unstressed. No vowel reduction.
it out and I can pinch it"		Bilabial assimilation
17. * "You can roll it and/out I	[kʰ̈̈́æm ˈϕĩtʃ]	Unstressed. Partial vowel
can pinch it"		reduction towards weak form.
		Bilabial assimilation. Falsetto
		voice quality
18. * "You <u>can put</u> it out on	[kə̃m pur]	Weak form. Bilabial assimilation
the ground can't you?"		
19. * "And I can pinch it"	[k <sup>h</sup> æ̃m ′p <sup>h</sup> ĩntʃ]	Unstressed. No vowel reduction.
		Bilabial assimilation
20. * "Mummy, you can make	[k <sup>h</sup> æ̃m ]meɪk]	Unstressed. No vowel reduction.
something what you making?"		Bilabial assimilation

Utterance	Realisation	Description of Phenomena
1. * "And now we can play	[kʰẳ̃m pleɪj]	Unstressed. No vowel reduction.
outside can't we Farty-Pants?"		Bilabial assimilation
2. * "And now we can play	[ˈkʰãnt̪ə wï]	Stressed. Open juncture with
outside can't we Farty-Pants?"	·	epenthesis
3. "When it's down there, I	[khãn? 'vicç]	Unstressed. No vowel reduction.
<u>can't</u> reach it can I"		Close juncture with glottal stop
4. "When it's down there, I	[ˈkʰæ̃ņ ᢩaɪ]	Stressed
can't reach it <u>can I</u> ?"		
5. "I <u>can get i</u> t"	[ˌkʰ̃æn ˈgɛt̪ʰ]	Stressed. Open juncture
6. " <u>Can I see as well</u> "	[kận ˈaɪ]	Unstressed. No vowel reduction.
		Vowel slightly raised
7. * " <u>Can I</u> see you (a) big	[kǝ̃n ˈai]	Weak form
bang?"		
8. "Mummy, (hiccup) () I <u>can</u>	[kxæ̃m bij]	Unstressed. No vowel reduction.
<u>be</u> a postman (.) can't (.)		Bilabial assimilation
(hiccup) I?"		
9. "Mummy, (hiccup) () I can	$[k^{h}$ ãn? (.) aı]	Stressed. Final glottal stop, but
be a postman (.) <u>can't (.)</u>		open juncture owing to pause and
(hiccup) <u>I</u> ?"		hiccups
10. "It <u>can't go</u> through"	[kʰā̃ŋ? gəʊ]	Unstressed. Velar assimilation
11. * " <u>Can I</u> keep …"	[kʰə̃n ˈaɪ]	Weak form
12. "Please <u>can I have V</u> imto?"	$[k^{ m h} ilde{lpha}$ n ə æ]	Weak form
13. "And (.) you know what,	[k <sup>h</sup> ỡn 'dü]	Unstressed. No vowel reduction
you know, you know what		
you <u>can do (</u> ) sometimes?"		
14. "You <u>can hold</u> if you like"	[ˌkʰæ̃ˈn ˈheʊłd̯]	Stressed, but not tonic
15. "I can't drink all that, ()	[khãn? d.uk]	Unstressed. Close juncture with
could I?		glottal stop
16. "I <u>can't drink</u> it then"	[k <sup>h</sup> ãn ˈd̪ɹĩŋk]	Close juncture with final nasal
17. "Mummy, sometimes you	[k <sup>h</sup> æn 'teik <sup>j</sup>	Unstressed. No vowel reduction
can take it home"		
18. * "You <u>can play</u> with it	[k <sup>h</sup> õm 'ple1]	Weak form. Bilabial assimilation
l		

#### Table 32. Thomas's Realisations of Can and Can't at Age 3;7;3

you like"

## Table 33. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;7;4

Utterance	Realisation	Description of Phenomena
1. "You <u>can put (</u> th)em	[k <sup>h</sup> 쬹̃m pu <u>t]</u>	Unstressed. No vowel reduction.
there"		Bilabial assimilation
2. "You <u>can be a lady-man</u> "	[k̈́æn 'bij]	Unstressed. Partial vowel
		reduction towards weak form.
		Open juncture
3. * "And I can be a big/bin	[kʰʌm̊ 'bij]	Unstressed. Vowel alteration.
man"		Devoiced/weak final nasal in <i>can</i> .
		Bilabial assimilation
4. "And I can be a big man"	[k <sup>h</sup> 쬹̃m bij]	Unstressed. No vowel reduction.
		Bilabial assimilation
5. "And I can collect it	[k <sup>h</sup> ỡn kəlɛ?t̪]	Unstressed. No vowel reduction.
there"		Open juncture
6. * "You can to, you <u>can be</u>	[kʰə̃m bij]	Weak form. Bilabial assimilation
a man can't you"		
7. * "You <u>can be</u> Daddy and	[k <sup>h</sup> 쬹̃m bi)	Unstressed. No vowel reduction.
then you can be a Mummy		Bilabial assimilation. False start
again"		
8. "You can be Daddy and	[kə̃m bij]	Weak form. Bilabial assimilation.
then you can be a Mummy		Revision
again"		
9. * "Erm (.) mm (.) this one	[kʰə̃n ˈkʋæ∫]	Weak form. Open juncture
could be away and you can		
crash_couldn't you?"		
10. "And you Daddy can be	[k <sup>h</sup> ãm bij]	Unstressed. No vowel reduction.
in that car"		Bilabial assimilation
11. "And Purdie can be in	[k <sup>h</sup> ə̃m bij]	Weak form. Bilabial assimilation
that car"		
12. "You can be, you could	[k <sup>h</sup> ỡm bi]	Unstressed. No vowel reduction.
be in that, couldn't you?"		Bilabial assimilation
13. "You <u>can be</u> in it"	[kə̃m bij]	Weak form. Bilabial assimilation
14. "And you <u>can be</u> a big	[kə̃m bij]	Weak form. Bilabial assimilation
grabber"		
15. * "I <u>can be</u> a big grabber	[kæ̃m ˈmij]	Unstressed. No vowel reduction.
couldn't I?"		Bilabial assimilation and
		germination
16. "You can, I <u>can</u>	['kh@m] ['kh@m 'biu?]	Stressed, but not tonic. Open
build/built your house		juncture false start, with bilabial
couldn't I?"		assimilation in revision

17. * "xxx You can built	['k <sup>h</sup> 죭m 'bɪʊt]	Stressed, No vowel reduction.
another one"		Bilabial assimilation
18. "And you can come	[kʰə̃ŋ kʰɒ̃m]	Weak form. Velar assimilation
here"		
19. * "xxx You <u>can come to</u>	[kʰæ̃ŋ kʰῦm]	Unstressed. No vowel reduction.
my house to () play (.) with		Velar assimilation
my big boulder"		
20. "xxx I <u>can (0.5) put</u> 'em	[kæ̃m(0.5) pụt]	Unstressed. No vowel reduction.
all back together like that,		Bilabial assimilation, despite 0.5
you can build them"		
21. "xxx I can (0.5) put 'em	[k <sup>h</sup> ∰m (0.5) 'brud]	Unstressed. No vowel reduction.
all back together like that,		Bilabial assimilation
you can build them"		
22. "You <u>can build</u> it	[kʰቋ̃m ˈbɪʊd̯ ɪ?]	Unstressed. No vowel reduction.
couldn't"		Bilabial assimilation
23. * "And I can build	[kʰə̃m brʊ]	Weak form. Bilabial assimilation
them/on it"		

## Table 34. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;7;5

Utterance	Realisation	Description of Phenomena
1. "You can <u>be (0.5)</u> a man"	[kʰə̃m bi]	Weak form. Bilabial assimilation
2. "You <u>can be</u> a lady to	[kʰə̃m bij]	Weak form. Bilabial assimilation
watch"		
3. "You can <u>can't catch</u> me	['k <sup>h</sup> ãn? k <sup>h</sup> æt∫]	Close juncture with glottal stop
(be)cause I'm a pee-wee-man"		
4. * "Say, () Mummy you <u>can</u>	[ɣə̃m bij]	Weak form. Bilabial assimilation
<u>be</u> a vet"		
5. "And you <u>can be</u> little	[kʰə̃m bi]	Weak form. Bilabial assimilation
animal"		
6. * "You can_just scratch your	[k <sup>h</sup> ữn] [k <sup>h</sup> ữm bij]	Unstressed. No vowel reduction.
back, you can <u>be</u> a window-		Bilabial assimilation
cleaner"		
7. "So I <u>can be</u> a snake"	[k <sup>h</sup> æ̃m 'bij]	Unstressed. Stron No vowel
		reduction. Bilabial assimilation
8. "And, (0.5) you <u>can be a vet</u>	[kə̃m bij]	Weak form. Bilabial assimilation
you can be"		
9. "And (0.5) you can be a vet	[kə̃m b̃i]	Weak form. Bilabial assimilation
you <u>can be</u> "		
10. * "And Mummy, you can	[kʰə̃m bij]	Weak form. Bilabial assimilation
<u>be</u> a Mummy"		
11. "You <u>can get a hospital</u> "	[kʰə̃ŋ gɛț]	Weak form. Velar assimilation
12. "You <u>can go</u> (0.5) nee-naw	[ˈkæ̃ŋ ˈɡəʊ]	Stressed and syllable-timed. Velar
nee-naw all the way and just		assimilation
park just there Mum"		
13. * "Mummy, you <u>can be</u>	[kə bij]	Weak form. Close juncture with no
ambulance, ambulance xxx"		final nasal
14. * "Mummy you can be	[kʰə̃m bij]	Weak form. Bilabial assimilation
along and you can drive a		
lorry"		
15. * "You <u>can be</u> a vet say	[kʰə̃m bij]	Weak form. Bilabial assimilation
"what's wrong?" "		
16. "Mum, you <u>can be a</u>	[kʰə̃mij]	Weak form. Possibly combined
crocodile again couldn't		regressive bilabial assimilation and
we?"		progressive nasal assimilation
17. "There was/wasn't (.) you	[k <sup>h</sup> m 'meık]	Weak form. Bilabial assimilation
can make a friendly		
crocodile"		
18. "Mummy, you <u>can (.) be</u>	[kʰə̃m (.) 'bï]	Weak form. Bilabial assimilation,
a doctor couldn't you? A vet		despite pause at word boundary

couldn't you?"		
19. * "you you <u>can be</u> your	[kõm bi]	Unstressed. Vowel alteration.
friends"		Bilabial assimilation
20. "you <u>can be</u> a vet, (.)	[kʰə̃m bi]	Weak form. Bilabial assimilation
Apple"		
21. "You <u>can be</u> a vet and I	[kʰə̃m bij]	Weak form. Bilabial assimilation
can crawl away"		
22. * "You can be a vet and I	[kæ-n ˈkxvɔ]	Unstressed. Vowel alteration. No
can crawl away"		assimilation

# 4.9. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 3;8

Note: can and can't did not occur at any potential assimilation sites at age 3;8;1 or 3;8;2

Utterance	Realisation	Description of Phenomena
1. * "And then you <u>can</u>	[kʰæ̃ŋ: kʰɒˈlɛt̪t]	Unstressed. No vowel reduction.
<pre>collect(?)"</pre>		Velar assimilation
2. "And you <u>can</u> …"	[ˈkʰ̃æ̃n <sup>ɣ</sup> ·]	Stressed. Immediately follows
		utterance 1. Final nasal has some
		velar features
3. "You <u>can watch</u> "	[k <sup>h</sup> æ̃m ˈwɒtʃ]	Unstressed. No vowel reduction.
		Bilabial assimilation prior to [w]
4. "This can go dud-dud"	[k <sup>h</sup> ữ gəʊ]	Unstressed. No vowel reduction.
		Close juncture with no final nasal
5. "Course they <u>can. They</u>	['kʰæ̃n neɪ]	Stressed. Gemination of [n] across
go (hissing noises)"		word boundary
6. "You <u>can say</u> "Oh dear"	[k <sup>h</sup> 쬹ň seij]	Stressed
7. "Please <u>can you hold</u>	[k <sup>lh</sup> ə̃n ju]	Weak form
that Mummy?"		
8. " <u>can I</u> have that now?"	[k <sup>h</sup> ữ̃n aij]	Unstressed. No vowel reduction
9. " <u>Can't use that</u> "	[k <sup>h</sup> ãn? 'jựz]	Unstressed. Close juncture with
	, v	glottal stop
10. * "We need dustbin	[kʰ̃æn 'pʊʃ]	Unstressed. No vowel reduction.
bag to be full-up yet, (.)		Open juncture
and then you <u>can push</u> me		
along"		
11. * "And you <u>can be</u>	[k <sup>h</sup> æ̃m mĭj 'ıkʊł]	Unstressed. No vowel reduction.
little girl watching the		Combined bilabial assimilation and
dustbin-men"		progressive nasal assimilation,
		producing gemination
12. "Need to tip some		Inaudible owing to extraneous noise
rubbish, so we <u>can xxx</u> "		
13. "But I <u>can't sing</u> it"	['kʰãn? sɪŋ]	Stressed. Close juncture with glottal
		stop
14. "I <u>can't (re)member it</u> "	[k <sup>h</sup> ãm 'mɛm]	Unstressed. Bilabial assimilation.

Table 35. Thomas's Realisations of Can and Can't at Age 3;8;3

		Transcription breaks off because final syllable of <i>(re)member</i> inaudible
15. "But when you get out you <u>can have</u> one (0.5) for tea and one for (0.5) lunch. (O)kay?"	[k <sup>h</sup> æ̃n 'æv]	Unstressed. No vowel reduction
16. * " <u>Can I</u> have one more now, (.) (be)cause there's lots of (th)em"	[k <sup>h</sup> æ̃n aɪ]	Unstressed. No vowel reduction
17. "Course she <u>can</u> "	['k <sup>h</sup> æn]	Stressed
18. "When there's another one we <u>can</u> "	[k <sup>h</sup> ằ̃n]	Unstressed
19. "And you <u>can fill</u> up my truck, (.)and I will drive"	[k <sup>h</sup> ễm 'fɪl]	Unstressed. Partial vowel reduction towards weak form
20. "Mummy, phone hospital-man to drive () ambulance and I <u>can be</u> a lorry"	[k <sup>h</sup> 쬹̃m bij]	Unstressed. No vowel reduction. Bilabial assimilation.
21. * "Um I <u>can see ()</u> (noise, possibly hiccup) rubbish from here"	[ˈkæ̃n ˈsi]	Unstressed. No vowel reduction
22. "I <u>can be</u> a man running"	[k <sup>h</sup> ə̃m mij]	Weak form. Combined bilabial assimilation and progressive nasal assimilation, producing gemination
23. "And I <u>can (0.5) fire in</u> the fire over there"	['kʰæ̃m· (0.5) 'faɪjəɪ]	Stressed. Final bilabial nasal in anticipation of [f] despite brief pause at word boundary. Features of place assimilation, although not exact assimilation
24. "I <u>can't</u> "	['kʰą̃ů(C,Vls)]	Stressed
25. "You <u>can make me</u> better and say, "lie down little snake" "	[kə̃m mei?]	Weak form. Bilabial assimilation
26. * "but then, (.) and then he <u>can post letters</u> "	[ˈkʰæ̃n pəʊs̯t ]	Stressed. Open juncture
27. "Please <u>can I help?</u> "	[kʰʰʰ ˈaɪj]	Weak form
28. "You <u>can do</u> those too, and I will be walking Okay?"	[kxĩn_dụ]	Unstressed. Vowel alteration, possibly towards a weak form

29. * "Mummy, I will open	$[{}^{t}k^{h}\tilde{a}n(.){}^{t}fla]$	Stressed, but not tonic. Pause at
the door and you can (.)		word boundary
fly on into my back door,		
(0.5) okay?"		
30. * "You <u>can (0.5) fly</u>	$[k^{h}$ æ̃ŋ (0.5) 'fləvə̃m]	Unstressed. No vowel reduction.
on/them back into boxes"		Brief pause at word boundary. Final
		velar nasal, but no potential velar
		assimilation site

## Table 36. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;8;4

Utterance	Realisation	Description of Phenomena
1. "Oh now we <u>can bake</u> "	[k <sup>h</sup> ə 'be:1k <sup>jh</sup> ]	Weak form. Close juncture with no
		final nasal. Falsetto voice quality
		throughout utterance
2. "I can, () (be)cause)	['kʰæ̃n () kəːẓ]	Stressed. Open juncture with long
() my ears are there"		pause at word boundary
3. * "There, <u>can put</u> on my	[kễm pỹt]	Unstressed. No vowel reduction.
head"		Bilabial assimilation
4. "I know what we <u>can put</u>	[kភ៊m p <sup>h</sup> ut <sup>h</sup> ]	Unstressed. Partial vowel reduction
on as well"		towards weak form. Bilabial
		assimilation

## Table 37. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;8;5

Utterance	Realisation	Description of Phenomena
1. "I <u>can blow on this</u> "	[kxə̃ bləu]	Weak form. Close juncture with no
		final nasal

# *4.10.* Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 3;9

Utterance	Realisation	Description of Phenomena
1. "And you can call the	[kəns ˈkʰɔl]	Weak form. Open juncture with
fire brigade"		consonant insertion

#### Table 38. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;9;1

#### Table 39. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;9;2

Utterance	Realisation	Description of Phenomena
1. * "You <u>can call (th)</u> em	['khãn 'khɔl]	Stressed. Open juncture
shoes actually (be)cause (.)		
shop-man called xxx		
shoes"		
2. "Look, I <u>can (0.5) cut</u> "	$[k^{h}n(0.5)$ $k^{h}ut]$	Weak form. Open juncture with brief
		pause
3. "I <u>can cut</u> something"	[kə̃n ˈkʰəṯ]	Weak form. Open juncture
4. "You <u>can pull (</u> 0.5)	[kʰæ̃n pʰʊ[]	Unstressed. No vowel reduction.
(intake of breath) a heart		Open juncture
off (be)cause it's your		
favourite"		
5. "You <u>can pull</u> it off"	[k <sup>h</sup> ãm p <sup>h</sup> ʊl]	Unstressed. No vowel reduction.
		Bilabial assimilation
6. "I <u>can't get them</u> "	[kẵŋ ˈgɛ?]	Unstressed. Velar assimilation

#### Table 40. Thomas's Realisations of Can and Can't at Age 3;9;3

Utterance	Realisation	Description of Phenomena
1. * "You know what xxx? You	[k <sup>h</sup> æ̃n 'si]	Unstressed. No vowel reduction
know what I can see"		
2. "Can I have one I said?"	[kə̃ ˈaɪj]	Weak form. No final nasal
3. "You <u>can look</u> as well"	[kʰə̃ ˈlʊk]	Weak form
4. "Look Mummy, you <u>can look</u>	[kän lukh]	Unstressed. Partial vowel reduction
as well, (.) you want to"		towards weak form
5. "Mummy, I <u>can xxx</u> "	[gẵn]	Unstressed. No vowel reduction.
		Following word could not be
		transcribed because inaudible
6. " <u>Can't read i</u> t"	k[ʰãnʔ ˈʋid̯]	Unstressed.
7. " <u>Can you hear my engine?</u> "	[k <sup>h</sup> ận ij 'lə]	Unstressed. No vowel reduction
8. "I <u>can't eat that one (be)cause</u>	['kʰą̃n? i?]	Stressed
it's all soggy"		
9. "Please can I have a hula-hoop	[xẵnn ăĭ æv]	Unstressed. Strong. No vowel
please?"		reduction. Very short vowels, so that
		the three words appear to merge into
		one phonetically
10. "Can you look after it?"	[ˈkʰæ̃ ju̯]	Stressed. No vowel reduction. No
		final nasal
11. "And I can be the fireman	[kʰə̃b̃i]	Weak form. Combined bilabial
() n: steel"		assimilation and progressive nasal
		assimilation. Resulting consonant is
		a hypernasal [b] or a hyponasal [m].
		Not gemination, as consonant too
		short. Possibly has a cold
12. "You <u>can't see them</u> "	[ˈkxän? ˈtsi::]	Stressed. Close juncture with glottal
		stop. Sing-song intonation
13. "You <u>can have</u> my hosepipe	[k <sup>h</sup> ə̃n æv]	Weak form
a treat"		
14. "Actually it's mine, but you	[xædi 'hæv]	Unstressed. No vowel reduction. /n/
can have it for a while"		in <i>can</i> consonant either a hypernasal
		[d] or a hyponasal [n]. Additional
		final vowel, may have been a false
		start

#### Table 41. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;9;4

Utterance	Realisation	Description of Phenomena
1. "You <u>can go</u> in the back		Missing sound file
with the lorries and cars"		

Note: two occurrences of *can* were detected at potential assimilation sites at age 3;9;5. However, both of these may equally have been realisations of the word *could*. These utterances have not been included in the data analysis because of this uncertainty. A control analysis was conducted for *could* at the same age. Six occurrences were found, one of which equally may have been *can*.

# 4.11. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 3;10

Utterance	Realisation	Description of Phenomena
1. * "When I finished doing	$[k^{h}$ əm (0.5) 'pleı]	Weak form. Bilabial
this printings, we $can(0.5)$	·	assimilation, despite brief
play fire-engines"		pause at word boundary
2. "You <u>can (.) put it in the</u>	$[k^{h}\tilde{a}n(.)p^{h}ur]$	Stressed. Open juncture
brush and squish around"		
3. "Stacking the saucers up	[kʰẵ̃m bï]m bï]	Possible partial vowel
can be great fun"		reduction towards weak
		form. Bilabial assimilation

#### Table 42. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;10;0

#### Table 43. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;10;1

Utterance	Realisation	Description of Phenomena
1. "So I <u>can mix</u> "	[kʰæ̃ˈm'ıks̯]	Unstressed. No vowel
		reduction. Bilabial
		assimilation and slight
		gemination

#### Table 44. Thomas's Realisations of Can and Can't at Age 3;10;2

Utterance	Realisation	Description of Phenomena
1. "Mummy, look at that big	$[k^{hj}$ ận (0.5) $\underline{ts}$ i]	Unstressed. Partial vowel reduction
hole I <u>can (0.5) see</u> "		towards a weak form
2. "Mummy you/Mummy	['k <sup>jh</sup> ữn 'si]	Stressed
know what I can see through		
this big hole?"		
3. "I <u>can't see</u> "	[k <sup>j</sup> ə̃n̂? ˈsi̯ʔi]	Weak form of <i>can't</i>
4. "I <u>can't</u> …"	[kə̃t̪]	Weak form of <i>can't</i> . Utterance
		unfinished because interrupted by
		mother
5. * "Mummy, <u>can't see it</u> "	[kȝ̃ʔ ˈs̪ij]	Unstressed. Partial vowel reduction
		towards a weak form
6. * "mm can't <u>can't hear you</u> "	[k <sup>h</sup> ãn? 'hı:]	Stressed. Shouting
7. " <u>Can't hear you</u> "	['k <sup>h</sup> ãn? 'hı:]	Stressed. Close juncture with glottal
		stop. Shouting
8. * " <u>Can I mess with this</u>	[kʰž̃ aɪ]	Unstressed. No vowel reduction
card?"		
9. " <u>Can I</u> (.) play with that	[kʰã ˈaɪ]	Unstressed. No vowel reduction
nice"		
10. "I <u>can't see the apples</u> "	[ˈgãn? tsi]	Unstressed
11. * "It's (.) Springtime, and	[g <sup>j</sup> õm pleij]	Weak form. Merging of you and can.
(.) er Aunty Mabels (.) is on at		Bilabial assimilation
Springtime, and Mrs. Plattford		
said (.) "You <u>can play</u> out at		
Springtime"		
12. "Yes, and then I can knock	[xən 'nɒk]	Weak form
on the window"		
13. " <u>Can I (</u> ) can I give you	[kʰẳ̃n ˈaiː]	Unstressed. No vowel reduction
(.) erm"		
14. "Can I () <u>can I g</u> ive you	[ˈkʰæ̃ˈn ˈaɪ]	Stressed. Lengthened vowel
(.) erm"		
15. " <u>Can I (</u> ) erm just"	[k <sup>h</sup> æ̃n 'ai]	Unstressed. No vowel reduction
16. "No <u>can you</u> have a bit of	[khằn 'ju]	Unstressed. Partial vowel reduction
it"		towards weak form
17. "Please <u>can I</u> have Eeyore	[k <sup>jh</sup> ận aij]	Unstressed. Partial vowel reduction
cake please?"		towards a weak form
18. "Um, I <u>can't eat</u> any more jam"	[k <sup>h</sup> ãn '?id]	Unstressed
19. "Please <u>can I</u> have, um a	[k <sup>h</sup> ữn aɪj]	Unstressed. No vowel reduction

bit of that crunchy bit?"		
20. "Open the back door and I	[kæ̃n i'ʌ]	Unstressed. No vowel reduction
can hear"		
21. * "You can (re)member it"	[k <sup>h</sup> æ̈'n 'mɛməv]	Unstressed. No vowel reduction.
		Open juncture
22. "Please can (a)nother bit?"	[pi xɛ̃n 'nῦvə]	Unstressed. Phonetic reduction
		throughout whole utterance
23. "(be)cause it can't know	[ˈkʰãnʔņʔ nəʊ]	Stressed
where's the stairs"		
24. * "Oh please <u>can I</u> have	[(C,vls0ðn aı]	Weak form
it?"		
25. " <u>Can I</u> (.) have two of that	[k <sup>h</sup> æ̃n 'aɪ]	Unstressed. No vowel reduction
red one?"		
26. "Please <u>can I have</u> another	[k <sup>1</sup> ə'lɛv]	Weak form. Phonetic reduction
bit"		throughout utterance
27. "Please <u>can I have the blue</u>	[T <sup>ı</sup> æ̃n əj]	Unstressed. No vowel reduction
bookbag?"		
28. * "Excuse me, <u>Can you</u>	[k <sup>h</sup> æ̃n jĭ]	Unstressed. No vowel reduction
shut your ears (be)cause it's		
this the big crinkling sound?"		
29. " <u>xxx Can't see her face</u> "	[ŭˈwãð͡? s̪ij]	Stressed
30. " <u>Can't get past</u> "	['khãŋ? ge?]	Stressed. Velar assimilation
31. " <u>Can't see</u> "	[K̃ŝn? t̪s̪i]	Weak form of <i>can't</i> . Close juncture
		with glottal stop
32. "Mummy, () <u>please can I</u>	['pliçõn aɪ]	Weak form. Merging of <i>please</i> and
have that machine where you		can
blow big, big, big bubbles?"		
33. "You <u>can't see it</u> (be)cause	[kẵn ˈs̪ijˈ	Unstressed. Short vowel
(.) Mummy, it's all shade up"		
34. "Er er (0.5) I <u>can see the</u>	[kʰæ̃n་ ˈs̪་i]	Unstressed. No vowel reduction
pictures through here"		
35. * " <u>can</u> "	[ˈc쬹̃n]	Stressed
36. "I <u>can see</u> Berta"	[k <sup>h</sup> ận si]	Unstressed. No vowel reduction
37. "Mummy, excuse me <u>can</u>	[ˈkʰæ̃n ạ̪ɪ]	Stressed
$\underline{I}$ (.) um get a bookbag?"		
38. " <u>Can you hold it</u> "	[ˈk <sup>lh</sup> ậ̃n juw]	Stressed

Utterance	Realisation	Description of Phenomena
1. " <u>Can't get up</u> "	[kĩŋ gɪ <u>t]</u>	Weak form of <i>can't</i> , or
		putting on funny voice.
		Velar assimilation
2. "I <u>can get i</u> t"	[kʰə̃ŋ ˈgɛt̪ʰ]	Weak form. Velar
		assimilation
3. "I can go round here"	[k <sup>h</sup> ẽn: 'gəʊ]	Unstressed. Vowel
		alteration. Open juncture
4. "I can't get the others	['khān? ge?]	Stressed. Open juncture
out"		

Table 45. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;10;3

Note: although two occurrences of *can* occurred at potential assimilation sites at age 3;10;4, neither could be included in the analysis. The first may have been an instance of *could* and was therefore eliminated. The second instance could not be transcribed owing to disruption to the sound file.

# 4.12. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 3;11

#### Table 46. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;11;2

Utterance	Realisation	Description of Phenomena
1. "Yeah, and he's forgotten	[kʰə̃n̥ ˈkʲʰip]	Weak form. Open juncture
it, but you <u>can keep</u> it"		

Utterance	Realisation	Description of Phenomena
1. * "Then I can be flying	[kʰə̆ 'bi]	Weak form. Close juncture
super-xxx"		with no final nasal
2. "Hey! "I can make	[xə̈ˈmeɪ?]	Weak form. Ambisyllabic
myself () um be alive		nasal at word boundary.
again"		Either bilabial assimilation
		or no final nasal in <i>can</i> and
		therefore no assimilation.
		Unsure, so unclassifiable
3. " <u>Can go </u> baa now"	[hŋ ˈɡəʊ]	Weak form. Velar
		assimilation
4. "I got something (.) you	[gĩn] [k <sup>h</sup> ỡm 'meɪk <sup>x</sup> ]	False start with no vowel
<u>can</u> you <u>can make (.)</u> pet"		reduction and no
		assimilation. Revision with
		weak form and bilabial
		assimilation

[ĭ h<sup>j</sup>ŋ 'gəʊ]

5. "Now you can go now"

Table 47. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 3;11;3

Weak form. Velar

assimilation

Table 48. Thomas's Realisations o	f <i>Can</i> and	Can't at Age 3;11;5
-----------------------------------	------------------	---------------------

Utterance	Realisation	Description of Phenomena
1. * "xxx Can I weigh it"	[kʰž̃n ˈaɪ	Unstressed. Short vowel gives some
		features of a weak form
2. "You <u>can tip</u> it in"	[ˈgə̃·n ˈtʰɪpʰ]	Stressed, perhaps through vowel
		lengthening. Schwa vowel, similar to
		weak form
3. " <u>Can I have some more?</u> "	[kə aı]	Weak form
4. "Mummy, can I have some	[kə̃n ə ˈæv]	Weak form. Immediate repetition of
more"		last utterance
5. " <u>Can I have some more of</u>		Not sufficiently audible for
this with a spoon?"		transcription
6. " <u>Can I have some more?</u> "	[m æ 'æ]	Weak form. Creaky voice throughout
		utterance
7. "I <u>can't do i</u> t"	[khãn? 'dŭw]	Unstressed. Close juncture with
		glottal stop
8. " <u>Can I do that</u> "	['khẫn äı]	Stressed, but with vowel features of
		a weak form. Putting on a funny
		voice
9. " <u>Can I</u> ?"	[k̥ʰ̃æn ˈaɪ]	Stressed. Immediately following
	٤	previous "can I do that?"
10." You can do the jelly-	[kʰə̃n d̪u]	Weak form
babies"		
11. "I can manage"		Not sufficiently audible for
		transcription
12. "Can I have this one?"	[x <sup>n</sup> n 'aɪ]	Partially devoiced weak form
13. * "Mummy, <u>can I have</u>	[x <sup>1</sup> æ̃n aɪ]	Unstressed. No vowel reduction
xxx?"		
14. "Please can I have this	[x <sup>1</sup> æ̃ æv	Stressed. No vowel reduction.
one?"		Merging of 'I' and 'have'
15. " <u>Can I eat them?</u> "	[k <sup>h</sup> ə̃n äĭ]	Weak form
16. "And they <u>can climb</u> up my	[k <sup>jh</sup> ą̃ŋ 'k <sup>l</sup> lạĩm]	Weak form. Velar assimilation
arm if they want"		
17. "Mum, <u>please can I have</u>	[ˈpli mə az̯]	Unstressed. Phonetic reduction and
that one?"		merging of "can I have"
18. "Please <u>can I have</u> that	[kłæŋ]	Unstressed. Phonetic reduction and
one?"		merging of "can I have"
19. * "And <u>can I have ()</u> the	[ˈkʰ̃æ̯n ə]	Stressed
black hair Kira?"		
20. "You <u>can have (0.5)</u> any of	[khắn 'æv]	Weak form
them, you can (.) choose"	1	

21. "You can have (0.5) any of	[xņ: t∫uz]	Weak form
them, you <u>can (.) choose</u> "		
22. "You <u>can have it</u> "	[khắn 'æv]	Weak form
23. * "Oh you <u>can have ()</u> this	[kə̃n æv̪]	Weak form
if you want?"		
24. " <u>Please can you have it</u> , (.)	[ˈpliṣæ̃n jə̆]	Unstressed. Partial vowel reduction
can I have a lift in your		towards weak form
truck?"		
25. "Please can you have it, (.)	[kʰä̈̈n æ'v]	Unstressed. Partial vowel reduction
<u>can I have a lift in your</u>		towards weak form
truck?"		

Note: no realisations of can or can't were sampled at age 3;11;6 owing to incomplete

transcription of the sound file.

# 4.13. Tables Showing Thomas's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites Sampled at Age 4;0

Utterance	Realisation	Description of Phenomena
1. "No, I <u>can't manage my</u>	['khām 'mænıdz]	Stressed. Bilabial
drink"		assimilation and gemination
2. "Erm, I can come home	[kʰə̃ŋ ˈkʰʊ̃m]	Weak form. Velar
if I want to"		assimilation

#### Table 49. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 4;0;2

#### Table 50. Thomas's Realisations of Can and Can't at Age 4;0;4

Utterance	Realisation	Description of Phenomena
1. "Er (0.5) you <u>can be the</u>	[kʰə ˈbi]	Weak form. Close juncture
passenger"		with no final nasal
2. "What can I do for you"	[kʰə̃đ aɪ]	Weak form
3. "You <u>can wait on</u> that ()	[k <sup>h</sup> ə 'waɪt̯sʰ]	Weak form. No final nasal
platform"		
4. "You <u>can be elephant too</u> "	[kʰə bij]	Weak form. Close juncture
		with no final nasal
5. "xxx You <u>can't do</u> it"	[kʰẵ̃n ˈd̪ŭw]	Unstressed. Close juncture
		with final nasal
6. "Cats can't do anything yet"	[k <sup>lh</sup> ãn? duw]	Unstressed. Close juncture
		with glottal stop
7. " <u>Can't they Mum?</u> "	['khãn? dei]	Stressed. Close juncture with
		glottal stop
8. " <u>I can</u> "	['aɪ]k <sup>h</sup> ǎn']	Stressed
9. * " <u>can can you</u> make it into a	[kʌm' gæn jü]	Stressed. False start and
fish?"		correction with different
		realisations
10. * "You can say "that train's	[k <sup>h</sup> ỹ 'seı]	Unstressed. Possible partial
been long time" "	L + " J	vowel reduction towards
		weak form
11. "Here you <u>can sit</u> with (.)	[k <sup>h</sup> æ̃n 'sıt <sup>h</sup> ]	Unstressed. No vowel
Mum"		reduction
12. "I can be the police-man as	[k <sup>h</sup> ə bi]	Weak form. No final nasal
well"		
13. "And you can say "Oh dear!	[K <sup>h</sup> ə şeıj]	Weak form. No final nasal
He's got a poorly leg" "	¥ -	
14. " <u>Can you look after my</u>	[kə̃n jų]	Weak form
hammer?"		
15. "You <u>can keep</u> them"		Not sufficiently audible for
		transcription
16. "You can share my letter"	[gə ˈʃɛ']	Weak form
17. " <u>Can I go</u> over there?"	[k <sup>h</sup> ặ̃n ăĭ]	Weak form
18. " <u>Can't see</u> it"	[k <sup>h</sup> ãn'tsij]	Unstressed. Partial vowel
		reduction towards weak
		form. Affrication across
		word boundary
19. " <u>Can't see</u> "	[kʰĎ̃n'ts̪i]	Unstressed. Affrication
		across word boundary

#### Table 51. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 4;0;7

Utterance	Realisation	Description of Phenomena
1. "If he <u>can</u> , () if we <u>can</u>	[kʰə̃n̊] [kə̃ŋ gəʊw]	Weak form. Open juncture
<u>go</u> outside"		false start. Revision with
		velar assimilation
2. "I can go schhhooo"	[kʰə̃ ˈɡəʊ]	Weak form. Close juncture
		with no final nasal
3. * "You can go down and	[xə̃ŋ ˈɡəʊ]	Weak form. Velar
then down"		assimilation
4. "I <u>can't get past</u> "	[ˈkʰä̈ŋʔ ˈgɛʔ]	Stressed. Velar assimilation

#### Table 52. Thomas's Realisations of Can and Can't at Potential Assimilation Sites at Age 4;0;9

Utterance	Realisation	Description of Phenomena
1. "No I <u>can't Mum</u> "	[ˈkʰǎ̈̈n? mü̈m]	Close juncture with glottal
		stop
## 4.14. Notes on Transcription Discrepancies

Utterances marked by asterisks indicate that there is a discrepancy between the interpretations of the current author and the original transcribers. Some of these discrepancies result from the denotation of a schwa in the Chat transcript when the transcriber was unable to identify a function word, but the current author could confidently identify it. Many of the discrepancies involved issues of intelligibility, where the current author either identified words previously marked unintelligible (xxx), or could not identify words marked in the Chat transcripts. The nature of each discrepancy is given below with reference to the Chat transcripts available from the CHILDES database.

1. Age 3;1;2: "I can't wear it, I can't" reads "<I can't wear> [/] I can't" in the Chat transcript (see line 1157).

2. Age 3;2;6: "I need (a)nother batteries I can't get out of here" reads "another batterys I can't get out here" in the Chat transcript (see line 1674).

3. Age 3;3;2: "Can't go back back again" reads "can go back [/] back again" in the Chat transcript (see line 563).

4. Age 3;3;4: "Then you can be a Daddy" reads "then can be a@p Daddy" in the Chat transcript (see line 1074).

5. Age 3;3;4: "I can do, I <u>can do it</u>" reads "<I can> [<] [/] I can do it" in the Chat Transcript (see line 1209).

6. Age 3;3;4: "Oh no, I need that because you <u>can be the lady looking for number one</u>" reads "oh no I need that (be)cause you can be a lady looking for number one" (see line 1916).

7. Age 3;3;4: "I <u>can be a parcel</u>" reads "I can be postman" in the Chat transcript (see line 1985).

8. Age 3;3;6: "Erm, you think he <u>can (.) cry</u> and he get his hat back?" reads "erm do you think he can cry and get his hat back" in the Chat transcript (see line 401).

9. Age 3;3;6: "Ah you <u>can</u>, I can be, you can be a bear" reads "you can [//] I can be [//] you can be a bear" in the Chat transcript (see line 1677).

10. Age 3;4;0: "It means dustbin wagons just <u>can't go</u> through it, and cars, and big dustbin wagons" reads "it means dustbin wagons can't go through and cars and big dustbin wagons" in the Chat transcript (see line 264).

11. Age 3;4;2: "And then, just on here, then, <u>can sprinkle it can't you</u>" reads "and then just on here then 0you [\*] can sprinkle it (.) you" in the Chat transcript (see line 909).

12. Age 3;4;2: "<u>Can maybe do some more</u>" reads "can < please we > [\*] do some more?" in the Chat transcript (see line 1282)

13. Age 3;4;2: "And I can" reads "&da can" in the Chat transcript (see line 1528).

14. Age 3;4;3: "I <u>can be a low wagon</u>, driving a big man (be)cause I'm a dustbin xxx" reads "I can be a low [?] wagon driving a big man (be)cause I'm a dustbin <want to> [?] drive it" in the Chat transcript (see line 1300).

15. Age 3;4;3: "I <u>can be a xxx you can be a fireman</u>" reads "<I [?] can be> [//] <there's a>
[//] can be a fireman" in the Chat transcript (see line 1919).

16. Age 3;5;3: "And I <u>can eat (th)em</u>" reads "and I can eat some" in the Chat transcript (see line 1450).

17. Age 3;5;3: "And put (th)em in a big box and then you <u>can eat 'em/some</u>" reads "I put them in the big boxs there and they can eat them" in the Chat transcript (see line 1451).

18. Age 3;5;5: "And you can't, (.) you <u>can, (.) go (</u>..) call for policeman can't you?" reads "< and you [?] can't> [<] [//] he can go < call for> [?] policeman ,, can't you?" in the Chat transcript (see line 509).

19. Age 3;6;2: "Teletubbies now <u>can I watch?</u>" reads "xxx Buzz\_Lightyear now can I watch?" in the Chat transcript (see line 203).

20. Age 3;6;2: "And you <u>can stay</u> there for ever and ever and ever and ever" reads "and [/] and you can stay there forever and ever and ever" in the Chat transcript (see line 402).

21. Age 3;6;2: I <u>can (.) keep</u>, (.) I can have that one" reads "I can have that one" in the Chat transcript (see line 538).

22. Age 3;6;2: "Then I can (.) change xxx" reads "then I can change (.) um +..." in the Chat transcript (see line 766).

23. Age 3;6;2: "And normally when a clock gets to bottom <u>can</u>" reads "and xxx when 0the [\*] clock gets 0to [\*] 0the [\*] bottom can" in the Chat transcript (see line 1558).

24. Age 3;6;3: "I <u>can't get any no</u>" reads "I can't get xxx" in the Chat transcript (see line 744).

25. Age 3;6;4: "Erm you <u>can put</u> it through that little slot won't you?" reads "erm you can put it through that little slot ,, can't you?" (see line 64).

26. Age 3;6;4: \* "Then you <u>can get</u> it" reads "then you can pick it up" In the Chat transcript (see line 231).

27. Age 3;6;4: "You can slot (th)em through there I can post (th)em in" reads as two separate utterances "you can slot them through there" "I can put them in" in the Chat transcript (see lines 450 and 451).

28. Age 3;6;4: "Then I <u>can be</u>, I can be a seller-man can't you?" reads "I [/] I can be a sellerman@c ,, can't you [\*)?" in the Chat transcript (see line 585).

29. Age 3;7;1: "Mummy I <u>can be a man (.)</u> do (.) it happy birthday to" reads "Mummy, I < can be a man > [>] (.) do happy birthday do me happy birthday to"" in the Chat transcript (see line 415).

30. Age 3;7;1: "Mummy, you can put it through there and say (.) I shout toot toot" reads "Mummy , you can put it through there and say I 0will [\*] shout hoot `hoot" in the Chat transcript (see line 586).

31. Age 3;7;1: "Ah you <u>can't get me</u>" reads "you can't get me ." in the Chat transcript (see line 764).

32. Age 3;7;2: "<u>Can't catch me (be)cause I'm the pooey-man</u>" Reads "you can't catch because I'm the pooey<sup>man@c</sup>" in the Chat transcript (see line 232).

33. Age 3;7;2: "<u>Can't catch</u> me (be)cause) I'm a gingerbread candle" reads "you can't catch me because I'm a gingerbread<sup>candle</sup> c" in the Chat transcript (see line 256).

395

34. age 3;7;2: "You <u>can't catch me</u> (be)cause I'm the/a gingerbread lady" reads "you can't catch me because I'm the gingerbread<sup>lady</sup> (ac" in the Chat transcript (see line 590).

35. Age 3;7;2: "You <u>can</u>, (0.5) you can bake\_something" reads "\*CHI: you [/] you can bake something" in the Chat transcript (see line 968).

36. Age 3;7;2: "Mummy, you can roll some out and I <u>can pinch it</u>" reads as two separate utterances "Mummy , you can roll it out ." "I can pinch it" in the Chat transcripts (see lines 1492 and 1493).

37. Age 3;7;2: "You can roll it and/out I <u>can pinch</u> it" reads "Mummy, you can roll it out and I can pinch it" in the Chat transcript (see line 1502).

38. Age 3;7;2: "You <u>can put</u> it out on the ground can't you?" reads "you can put it out on the ground ,, couldn't you?" in the Chat transcript (see line 1513).

39. Age 3;7;2: "And I <u>can pinch</u> it" reads "I can pinch it" in the Chat transcript (see line 1532).

40. Age 3;7;2: "Mummy, you <u>can make something</u> what you making?" reads as two separate utterances "Mummy , you can make something" "what 0are [\*] you making?" in the Chat transcript (see lines 1566 and 1567).

41. Age 3;7;3: "And now we <u>can play</u> outside can't we Farty-Pants?" reads "and now we can play outside ,, couldn't we , farty pants?" in the Chat transcript (see line 271).

42. Age 3;7;3: "<u>Can I</u> see you (a) big bang?" reads "can 0you [\*] see a big bang?" in the Chat transcript (see line 638).

43. Age 3;7;3: "Can I keep ..." reads "can I xxx" in the Chat transcript (see line 814).

44. Age 3;7;3: "You <u>can play</u> with it you like" reads "you can play with it if you like" in the Chat transcript (see line 1562).

45. Age 3;7;4: "I <u>can be</u> a big/bin man" reads "and I can be a big man" in the Chat transcript (see line 27).

46. Age 3;7;4: "You can to, you <u>can be a man can't you</u>" reads "<you can say> [//] you can be a man ,, can't you?" in the Chat transcript (see line 184).

47. Age 3;7;4: "You <u>can be Daddy</u> and then you can be a Mummy again" reads as two separate utterances "<you can> [<] be Daddy [?]" "you can be a Mummy again" in the Chat transcript (see lines 297 and 298).

48. Age 3;7;4: "Erm (.) mm (.) this one could be away and you <u>can crash</u> couldn't you?" reads "erm this one could be away and you can crash ,, couldn't you?" in the Chat transcript (see line 306).

49. Age 3;7;4: "I <u>can be</u> a big grabber couldn't I?" reads "Mummy [<], I can be a big grabber@c ,, couldn't I?" in the Chat transcript (see line 492).

50. Age 3;7;4: "xxx You <u>can built</u> another one" reads "\*you can build another one" in the Chat transcript (see line 934).

51. Age 3;7;4: "xxx You <u>can come to my house to (..) play (.) with my big boulder</u>" reads "you can call to my house to play with my big boulder" in the Chat transcript (see line 963).

52. Age 3;7;4: "And I <u>can build them/on it</u>" reads "you can build them" in the Chat transcript (see line 1045).

53. Age 3;7;5: "Say, (..) Mummy you <u>can be a vet</u>" reads "say < Mummy , you can be the vet"]" in the Chat transcript (see line 916).

54. Age 3;7;5: "You <u>can</u> just scratch your back, you can be a window- " reads as two separate utterances "you can just scratch your back " "you can be 0a [\*] window cleaner" in the Chat transcript (see lins 919 and 920).

55. Age 3;7;5: "And Mummy, you <u>can be</u> a Mummy" reads "Mummy , you can be a Mummy" in the Chat transcript (see line 1055).

56. Age 3;7;5: "Mummy, you <u>can be</u> ambulance, ambulance xxx" reads as two separate utterances "Mummy , you can be +/" "ambulance xxx , Mummy" in the Chat transcript (see lines 1152 and 1154).

57. Age 3;7;5: "Mummy you <u>can be</u> along and you can drive a lorry" reads as two separate utterances "Mummy" "you can move along and you can drive a lorry" in the transcript (see lines 1160 and 1162).

58. Age 3;7;5: "You <u>can be</u> a vet say "what's wrong?"" reads "You can be a vet" "say <what's wrong??" In the Chat transcript (see lines 1271 and 1272).

59. Age 3;7;5: "you you <u>can be</u> your friends" reads "those can be your friends" in the Chat transcript (see line 1471).

60. Age 3;8;3: "And then you <u>can collect(?)</u>" reads "you can xxx" in the Chat transcript (see line 17).

61. Age 3;8;3: "We need dustbin bag to be full-up yet, (.) and then you <u>can push</u> me along" reads "we need 0a [\*] dustbin bag xxx full up yet and then you can push me around" in the Chat transcript (see line 705).

62. Age 3;8;3: "And you <u>can be little girl watching the dustbin-men</u>" reads "and you can be a little girl watching the dustbin men" in the Chat transcript (see line 730).

63. Age 3;8;3: "<u>Can I</u> have one more now, (.) (be)cause there's lots of (th)em" reads "can I have one xxx now (be)cause there's lots of them" in the Chat transcript (see line 937).

64. Age 3;8;3: \* "um I <u>can see (..)</u> (noise, possibly hiccup) rubbish from here" reads "I can see rubbish from here" in the Chat transcript (see line 1406).

65. Age 3;8;3: "but then, (.) and then he <u>can post letters</u>" reads "< and then > [/] and then he can post letter-s" in the Chat transcript (see line 95)

66. Age 3;8;3: "Mummy, I will open the door and you <u>can (.) fly</u> on into my back door, (0.5) okay?" reads "Mummy, I will open the door and you can # fly into my back door " Okay??" in the Chat transcript (see line 105).

67. Age 3;8;3: "You <u>can (0.5) fly on/them</u> back into boxes" reads "you can fly into box-s" in the Chat transcript (see line 108).

68. Age 3;8;4: "There, <u>can put</u> on my head" reads ""there I can put it on my head" in the Chat transcript (see line 842).

69. Age 3;9;2: "You <u>can call (th)</u>em shoes actually be)cause) (.) shop-man called xxx shoes" reads "you can call them shoes actually (be)cause shop man called them shoes" in the Chat transcript (see line 53)

70. Age 3;9;3: "You know what xxx? You know what I <u>can see</u>" reads "you know when I look 0at [\*] Daddy you know what I can see?" in the Chat transcript (see line 126).

71. Age 3;10;0: "When I finished doing this printings, we <u>can (0.5) play</u> fire-engines" reads "when we've xxx painting we can play +/" in the Chat transcript (see line 40).

72. Age 3;10;2: "Mummy, <u>can't see it</u>" reads "Mummy , you can't see it" in the Chat transcript (see line 92).

73. Age 3;10;2: "mm can't <u>can't hear you</u>" reads "<<mmhm (.) I> [<] can't hear you> [=! shouting]" in the Chat transcript (see line 191).

74. Age 3;10;2: "<u>Can I mess with this card?</u>" reads "can I play [?] with this card?" in the Chat transcript (see line 210).

75. Age 3;10;2: "It's (.) Springtime, and (.) er Aunty Mabels (.) is on at Springtime, and Mrs. Plattford said (.) "You <u>can play</u> out at Springtime"" reads "it's springtime (.) and er (.) Auntie\_Mabel's is on at springtime and Miss [//] Mrs\_Plattford can play out at springtime" in the Chat transcript (see line 331).

76. Age 3;10;2: "You <u>can (re)member</u> it" reads "you can xxx it??" in the Chat transcript (see line 979).

77. Age 3;10;2: "Oh please can I have it?" reads "oy < please can I have it> [>]?" in the Chat transcript (see line 1069).

78. Age 3;10;2: "Excuse me, <u>Can you shut your ears (be)cause it's this the big crinkling</u> sound?" reads as two separate utterances "Mummy [<], excuse me" "can you shut your ears (be)cause this the big crinkly sound" in the Chat transcript (see lines 1169 and 1170).</p>

79. Age 3;10;2: "can" reads "I can" in the Chat transcript (see line 1666).

80. Age 3;11;3: "Then I <u>can be</u> flying super-xxx" reads ""then I can be 0a [\*] flying Superman" in the Chat transcript (see line 101).

81. Age 3;11;5: "xxx <u>Can I</u> weigh it" reads "< can I> [//] can I weigh it?" in the Chat transcript (see line 72).

82. Age 3;11;5: "Mummy, <u>can I</u> have xxx?" reads "Mummy, <can I> [//] can I have this?" in the Chat transcript (see line 775).

83. Age 3;11;5: "And <u>can I have</u> (..) the black hair Kira?" reads "and can I have the black haired Kira?" in the Chat transcript (see line 938).

84. Age 3;11;5: "Oh you <u>can have (..)</u> this if you want?" reads "you can have these if you want" in the Chat transcript (see line 1047).

85. Age 4;0;4: "<u>can can you</u> make it into a fish?" reads "can you make it into a fish?" in the Chat transcript (see line 636).

86. 4;0;4: "You <u>can say</u> "that train's been long time"" reads "you can say < that train's been a long time > " in the Chat transcript (see line 772).

87. Age 4;0;7: "You <u>can go</u> down and then down" reads "you can go down and down" in the Chat transcript (see line 1505).

# *4.15. Frequency Counts for <u>Can</u> and <u>Can't</u> at Ages Three and <i>Four*

Age	Can Frequency	Can't Frequency
3;0;0	1	6
3;0;1	5	6
3;0;2	0	2
3;0;3	6	3
3;0;7	0	1
Total frequency	12	18

## Table 53. Frequencies of Can and Can't at age 3;0

### Table 54. Frequencies of Can and Can't at age 3;1

Age	Can Frequency	Can't Frequency
3;1;0	2	2
3;1;1	3	1
3;1;2	4	3
3;1;3	4	3
3;1;4	1	6
Total frequency	14	15

Age	Can Frequency	Can't Frequency
3;2;2	10	4
3;2;3	3	4
3;2;4	3	6
3;2;5	9	11
3;2;6	8	12
Total frequency	33	37

Age	Can Frequency	Can't Frequency
3;3;2	10	3
3;3;3	6	5
3;3;4	32	8
3;3;6	18	3
3;3;7	13	0
Total Frequency	79	19

### Table 56. Frequencies of Can and Can't at Age 3;3

Table 57. Frequencies of Can and Can't at age 3;4

Age	Can Frequency	Can't Frequency
3;4;0	16	5
3;4;1	9	8
3;4;2	21	3
3;4;3	25	5
3;4;4	6	1
Total frequency	77	22

#### Table 58. Frequencies of Can and Can't at age 3;5

Age	Can Frequency	Can't Frequency
3;5;2	17	8
3;5;3	2	0
3;5;4	10	11
3;5;5	33	10
Total frequency	62	29

### Table 59. Frequencies of Can and Can't at age 3;6

Age	Can frequency	Can't Frequency
3;6;0	31	12
3;6;1	16	5
3;6;2	32	5
3;6;3	44	13
3;6;4	49	9
Total frequency	172	44

Age	Can frequency	Can't Frequency
3;7;1	46	15
3;7;2	51	20
3;7;3	15	5
3;7;4	36	1
3;7;5	34	3
Total frequency	182	44

### Table 60. Frequencies of Can and Can't at Age 3;7

Table 61. Frequencies of Can and Can't at Age 3;8

Age	Can Frequency	Can't Frequency
3;8;1	7	4
3;8;2	1	0
3;8;3	27	4
3;8;4	26	5
3;8;5	10	0
Total frequency	71	13

Table 62. Frequencies of Can and Can't at age 3;9

Age	Can Frequency	Can't Frequency
3;9;1	11	5
3;9;2	23	9
3;9;3	12	3
3;9;4	15	5
3;9;5	19	0
Total Frequency	80	22

### Table 63. Frequencies of Can and Can't at Age 3;10

Age	Can Frequency	Can't Frequency
3;10;0	17	3
3;10;1	9	11
3;10;2	26	14
3;10;3	40	12
3;10;4	10	8
Total Frequency	102	48

## Table 64. Frequencies of Can and Can't at Age 3;11

Age	Can Frequency	Can't Frequency
3;11;2	28	4
3;11;4	26	16
3;11;5	28	1
3;11;6	0	0
Total Frequency	82	21

## Table 65. Frequencies of Can and Can't at Age 4;0

Age	Can Frequency	Can't Frequency
4;0;2	3	1
4;0;4	17	5
4;0;7	18	4
4;0;9	5	3
Total Frequency	43	13

## 4.16. Summary of Frequency Counts for <u>Can</u> and <u>Can't</u> at Ages Three and Four

Age	Can Frequency	Can't Frequency
3;0	12	18
3;1	14	15
3;2	33	37
3;3	79	19
3;4	77	22
3;5	62	29
3;6	172	44
3;7	182	44
3;8	71	13
3;9	80	22
3;10	102	48
3;11	82	21
4;0	43	13

Table 66. Frequencies of Can and Can't at ages Three and Four: Summary

## Appendix Five.

# M's Realisations of *Can* and *Can't* at Potential Assimilation Sites

## 5.1. M's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites at T1 (Thomas aged 2;6)

#### Table 1. Data Session for Thomas Aged 2;6;16

Utterance	Realisation	Description of Phenomena
1. * "I've opened the bag of chocolate	[kʰm 'pʊ?]	Weak form. Bilabial
buttons, so you <u>can put</u> some Smarties		assimilation
and some chocolate buttons (4) onto		
the little plate please"		
2. "And you <u>can put</u> some chocolate	[kʰm̓ pʰʊʔ]	Weak form. Bilabial
buttons on as well, if you like"		assimilation
3. * "But decorate these, and then we <u>can</u>	[kʰʰ pʰʊʔ]	Weak form. Open juncture
put them on the plate with the finished		
ones"		
4. "They <u>can be</u> used to decorate, can't	[kṃ bi]	Weak form. Bilabial
they?"		assimilation
5. "And you <u>can't put</u> the box on"	['xãm? [p <sup>h</sup> u?]	Stressed. Bilabial
		assimilation
6. "Which one <u>can Mummy</u> have?"	[k <sup>h</sup> ə̃m 'mə̃mi]	Weak form. Bilabial
		assimilation
7. * "We <u>can mix</u> them"		Inaudible

#### Table 2. Data Session for Thomas Aged 2;6;17

Utterance	Realisation	Description of Phenomena
1. * "I <u>can't</u> quite tell what you're saying	['khãn? kwai?]	Stressed. Non-assimilation
properly now"		close juncture
2. "It's better if we <u>can go"</u> and see a	[kŋ ˈgeʊw]	Weak form. Velar
fire-engine at a fire-station"		assimilation

## Table 3. Data session for Thomas Aged 2;6;18

Utterance	Realisation	Description of Phenomena
1. "She's going to have to	[ˈkʰãnʔ ˈkʰö̈m]	Stressed. Non-assimilation
either tell the taxi driver		close juncture
(.) she <u>can't come</u> or		
she's going to have to say		
to her brother, "please		
look after the house,(.)		
until the fire's put out" "		
2. "So it <u>can go</u> in that one	[kʰŋ ˈɡəʊw]	Weak form. Velar
can't it?"		assimilation
3. "And now Auntie	[kʰə̃n ˈɡəʊ]	Weak form. Open juncture
Mabel's cancelled, the		
other lady can go"		
4. "He <u>can't get past</u> "	['khãn? ge?]	Stressed. Non-assimilation
		close juncture
5. "Liz <u>can't get</u> out of the	[khãn? gɛt]	Unstressed. Non-assimilation
house at the moment"		close juncture
6. "Oh perhaps Po <u>can go</u>	[kʰʰ ɡəʊɪ]	Weak form. Open juncture
back in the box"		

## Table 4. Data Session for Thomas Aged 2;6;19

Utterance	Realisation	Description of Phenomena
1. "And he <u>can put</u> them on his	[kʰə̃m pʰʊʔ]	Weak form. Bilabial assimilation
wall, can't he?"		
2. "We <u>can make</u> nice cards"	[km mer?]	Weak form. Bilabial assimilation
3. "Well, let's just do this first, and	[kʰə̃m pʊʔ]	Weak form. Bilabial assimilation
then you can put your hand-print		
on, and then you can open it		
when it's dry"		
4. "Because that shows you, you	[xṃ pʰʊʔ]	Weak form. Bilabial assimilation
can put paint on and go (noise)		
with your hands"		
5. "We'll have to see if we <u>can buy</u>	[kņ ˈbaɪ]	Weak form. Open juncture
some more stamps, won't we?"		
6. * We'll see if we <u>can buy</u> some	[k <sup>x</sup> ə̃m <sup>'</sup> b(V)	Weak form. Bilabial
more stamps, and we can cut		assimilation. Recording distorted
some potatoes and carrots and		
things, can't we, to make"		
7. * "We'll see if we can buy some	[çn ˈkʰųʔ]	Weak form. Open juncture
more stamps, and we <u>can cut</u>		
some potatoes and carrots and		
things, can't we, to make"		
8. * "And we <u>can (</u> .) and we <u>can</u>	[xn] [k <sup>h</sup> m]	Weak form. Open juncture false
maybe put this on the fridge"	ˈmɛb <sup>-</sup> bɪ]	start, with bilabial assimilation
		in revision
9. "And Peggy who's been in	[k <sup>h</sup> m 'mænıdz]	Weak form. Bilabial assimilation
hospital for (.) months and		
months is finally coming home		
next week on Wednesday ( ) if		
she <u>can manage</u> "		
10. "So we <u>can give (</u> .) Peggy one	[k <sup>h</sup> n 'gɪv]	Weak form. Open juncture
of the pictures can't we?"		

## Table 5. Data Session for Thomas Aged 2;6;20]

Utterance	Realisation	Description of Phenomena
1. "You <u>can manage</u> ?"	[k <sup>h</sup> m 'mænɪdʒ]]	Weak form. Bilabial assimilation
2. "That <u>can't be</u> right"	[ˈkʰãnʔ bĭ]	Stressed. Non-assimilation close
		juncture
3. "You <u>can pull</u> it out"	[xṃ pʰʊl]	Weak form. Bilabial assimilation
4. * "Well you <u>can't put</u>	[ˈkʰãm? pʊ?]	Stressed. Bilabial assimilation
your shoe in the bread-		
maker"		
5. "You <u>can go</u> in and ask	[kʰʰn ɡəʊw]	Weak form. Open juncture
for some sweets"		
6. * "If we <u>can get</u> one out,	[çŋ 'gɛ?]	Weak form. Velar assimilation
we'll probably manage to		
get the rest out"		
7. " <u>Can't get it out</u> "	['Khān? get]	Stressed. Non-assimilation close
		juncture

## 5.2. M's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites at T2 (Thomas Aged 3;3)

## Table 6. Data Session for Thomas aged 3;3;2

Utterance	Realisation	Description of Phenomena
1. "Well you <u>can be</u> a plane-	[kʰṃ bɪ]	Weak form. Bilabial assimilation
spotter as well as a car-spotter"		
2. "And the trains $\underline{can go}()$		Inaudible
straight into the engine shed		
can't they"		
3. "But I can't move it Thomas,	[k <sup>h</sup> ãm? 'mụ'v]	Unstressed. Bilabial assimilation
when you're sitting there"		
4. * "There <u>can't be</u> any naughty	[ˈk×ãm? bij]	Stressed. Bilabial assimilation
boys round here"		
5. "Because then if you get fed	[k <sup>h</sup> ə̃n (0.25) ple1]	Weak form. Open juncture with
up at the table, () you can		very brief pause
(0.25) play with your train		
while you're waiting for us all		
to finish our meal and have a		
chat"		
6. "You <u>can play</u> with your	[km 'pleɪ]	Weak form. Bilabial assimilation
tractor when you come down"		
7. * "Well we <u>can't put</u> these on	[ˈkʰãm? pʊ?]	Stressed. Bilabial assimilation
again"		
8. "We'll have to see if we <u>can</u>	[kņ ˈgɛ?]	Weak form. Open juncture
get something like that"		
9. "A bulldozer <u>can push</u> very	[k <sup>h</sup> ữn p∪∫]	Strong form. Open juncture.
heavy loads with its strong		Reading from a book
blade"		

## Table 7. Data Session for Thomas Aged 3;3;3

Utterance	Realisation	Description of Phenomena
1. "You <u>can build</u> a house"	[kʰm bɪłd]	Weak form. Bilabial assimilation
2. "This <u>can go</u> in the bin now,	[k <sup>h</sup> ŋ ˈgəuʊw]	Weak form. Velar assimilation
Thomas please that packet"		
3. * "So (.) all the little storage	[k <sup>h</sup> n 'gəʊw]	Weak form. Open juncture.
boxes <u>can go</u> on the tray"		
4. "Now that's nothing to do	[kʰŋ gəʊw]	Weak form. Velar assimilation
with food, so that <u>can go</u> on the		
tray, can't it?"		
5. * "The food's on the worktop	[kə̃ŋ gəʊw]	Weak form. Velar assimilation
and the rubbish <u>can go</u> in the		
bin"		
6. "That <u>can go</u> in the dustbin,	[kʰə̃n ģəʊw]	Weak form. Open juncture
Mr Rubbish-Man please"		
7. "Well you <u>can put</u> them in the	[kṃ 'pʰʊ?]	Weak form. Bilabial assimilation
bin if you like"		
8. "You <u>can make (</u> .) Thomas the	[k <sup>h</sup> m [mer?k]	Weak form. Bilabial assimilation
Tank-Engine biscuits"		
9. "It says "Now you <u>can make</u> ,	[k <sup>h</sup> m 'mer?k]	Weak form. Bilabial assimilation
bake and decorate your own		
Thomas and James cookies"		
10. "You're trying to eat	['kʰɑ̃n? kặʒ]	Stressed. Non-assimilation close
something, but you <u>can't</u>		juncture
(be)cause you're a little boy"		
11. "That we <u>can put</u> that with	[km 'pʰʊ?]	Weak form. Bilabial assimilation
the () rice and the pasta"		
12. "So that nobody <u>can get</u> to it	[çŋ ˈgɛ?]	Weak form. Velar assimilation
unless you really need to use		
it"		
13. "And then we $\underline{can (0.5) put}$ it	$[k^{h}$ ə̃n (0.5) p <sup>h</sup> ut <sup>h</sup> ]	Weak form. Open juncture with
back in the cupboard"		pause
14. "You <u>can get</u> the cloths and	[xŋ ge?]	Weak form. Velar assimilation
things"		
15. "Ah well I <u>can't get</u> down at	['k×ãn? gɛ?]	Stressed. Non-assimilation close
the moment, love"		juncture
16. "And they're handing the salt		No linking between chat and audio
to the pig, so that he <u>can give</u>		files
Lizzy or Issy"		

## Table 8. Data Session for Thomas Aged 3;3;4

Utterance	Realisation	Description of Phenomena
<ul> <li>1. * "And when they're very cool,</li> <li>(.). you <u>can (0.5) move</u> them from the top () the work-surface (.) into the fridge"</li> </ul>	[kņ (0.5) 'muv]	Weak form. Open juncture with pause
2. "I'll have to leave it there until it's really cold, and then I'll pop it in the fridge () and then we <u>can</u> <u>probably</u> eat it"	[kṃ }p.ɒbəblij]	Weak form. Bilabial assimilation
3. "You <u>can pretend</u> it's a birthday present"	[k <sup>h</sup> ņ (.). (C)1 <sup>1</sup> tɛ̃nd]	Weak form. Open juncture with pause. Recording very distorted
<ol> <li>"You <u>can go</u> back on your chair now, if you like"</li> </ol>	[(Fr,Vls)ŋ gəʊ]	Weak form. Velar assimilation
5. "You <u>can put</u> the wa(ter), the flowers in the water, but you can't cut the flowers"	[kʰm̥ ʰpʊʔ]	Weak form. Bilabial assimilation
6. "You <u>can put</u> the wa(ter), the flowers in the water, but you <u>can't</u> <u>cut</u> the flowers"	['k <sup>h</sup> ãn? kü?]	Stressed. Non-assimilation close juncture
7. "The rubbish-men <u>can collect</u> it, can they"	[k <sup>h</sup> ņ kəˈlɛk <sup>-</sup> t]	Weak form. Open juncture
8. "Oh you no, I don't think you <u>can</u> <u>go</u> out with my shoes on"	[xŋ gəʊ]	Weak form. Velar assimilation
9. "You <u>can, can't</u> you"	['k <sup>h</sup> æŋ 'k <sup>h</sup> ɑ̃n?]	Stressed. Velar assimilation
10. * "You <u>can be</u> a postman pretending that it's lunchtime"	[k <sup>h</sup> ə̃m bı]	Weak form. Bilabial assimilation

## Table 9. Data Session for Thomas Aged 3;3;6

Utterance	Realisation	Description of Phenomena
1. "Just (be)cause I say	[k <sup>h</sup> ə̃m 'baʊ̃nts]	Weak form. Bilabial assimilation
you're not bouncing on		
the settee, doesn't mean		
you <u>can bounce</u> on me"		
2. "You <u>can pop</u> "	[km 'p <sup>h</sup> ɒp <sup>¬</sup> ]	Weak form. Bilabial assimilation
3. "The marbles <u>can go</u> in	[kʰə̃ŋ ˈɡəʊw]	Weak form. Velar assimilation
this side"		
4. "But we <u>can't because</u>	[ˈkʰãm? bɪxəz]	Stressed. Bilabial assimilation
we're going to damage		
the pan"		
5. * "Well, this <u>can go in</u>	[kʰɪŋ ˈɡəʊ]	Vowel alteration. Unstressed. Velar
the rubbish-lorry"		assimilation
6. * "I <u>can be a</u> girl fast	[kʰm̥ bɪ]	Weak form. Bilabial assimilation
asleep"		

## Table 10. Data Session for Thomas Aged 3;3;7

Utterance	Realisation	Description of Phenomena
1. "If not, I <u>can make</u> some	[k <sup>h</sup> m 'meɪk']	Weak form. Bilabial assimilation
more"		
2. "You can keep that"	[kʰŋ ˈkip]	Weak form. Velar assimilation

## 5.3. M's Realisations of <u>Can</u> and <u>Can't</u> at Potential Assimilation Sites at T3 (Thomas aged 4;0)

### Table 11. Data Session for Thomas aged 4;0;2

Utterance	Realisation	Description of Phenomena
1. "It <u>can't (0.5) go</u> away in	[ˈkʰɑ̃nʔ ˈɡəʊ]	Stressed. Non-assimilation
that"		close juncture with pause

#### Table 12. Data Session for Thomas Aged 4;0;4

Utterance	Realisation	Description of Phenomena	
1. * "No, you <u>can't go</u>	['khãn? gəu]	Stressed. Close juncture with	
without me"		glottal stop	
2. "You can't go with	['khãn? gəu]	Stressed. Close juncture with	
Apple"		glottal stop	

## Table 13. Data Session for Thomas Aged 4;0;4

Utterance	Realisation	Description of Phenomena
1. "So we <u>can put</u> cheese quavers	[xə 'pu?]	Weak form. Non-
in our cheese house, Thomas"		assimilation close juncture.
		May be either can or could
2. "The ones we buy usually have	[ˈkʰæ̃m baɪ]	Stressed. Bilabial
all different coloured icing, but		assimilation
you can buy packets with just (.)		
chocolate icing"		
3. "I <u>can't believe</u> they'd ripen up	['khām? bə'liv]	Stressed. Bilabial
so quickly, but perhaps"		assimilation
4. "We can keep this little packet	[k <sup>x</sup> n ˈkip]]	Weak form. Open juncture
actually"		
5. "And then we $can (0.5)$ perhaps	$[k^x \tilde{a}n (0.5) p^h a'h a ps]$	Weak form. Open juncture
do some playing later on if that		with pause
would (.) suit you better, would		
it?"		
6. "There's a tune that we <u>can play</u>	[çõm pleɪ]	Weak form. Bilabial
on the piano called 'Chopsticks'		assimilation
as well"		
7. "If you've got to pick it up and	['khām? meik]	Stressed. Bilabial
throw it, you can't make it so		assimilation
big"		
8. "You <u>can pop</u> it in there if you	[xm 'pop]	Weak form. Bilabial
like, then we'll hang it back on		assimilation
the ironing board"		
9. "Then I can put the ironing	[kʰm̥ ˈpʰʊʔ]	Weak form. Bilabial
board up in the room, so I can		assimilation
watch telly"		
10. "That just extends the lead a	[kʰm̓ pʰʊʔ]	Weak form. Bilabial
little bit, so I can put the iron		assimilation
plug in there"		
11. "It <u>can, can't</u> it?"	['k <sup>h</sup> ỡŋ 'k <sup>h</sup> ãnt <sup>h</sup> ]	Stressed. Velar assimilation

## Table 14. Data Session for Thomas Aged 4;0;9

Utterance	Realisation	Description of Phenomena
1. "When I can get hold of	[kʰŋ gɛʔ]	Weak form. Velar
these headphones"		assimilation
2. "When we go out later	[xŋ ˈgɛ?]	Weak form. Velar
on, we <u>can get</u> some		assimilation
yoghurt"		
3. "And you <u>can go</u> in and	[kʰŋ gəʊ]	Weak form. Velar
see all the men working"		assimilation
4. * "I'll just have a look in	['k <sup>h</sup> ãŋ? giv]	Stressed. Velar assimilation
the fridge; I think we've		
got a yoghurt, but I think		
it's out of date, so I can't		
give you that"		
5. "I am the music man, I	[kʰə̃m ˈpleɪj]	Weak form. Bilabial
come from far away and I		assimilation. Singing
<u>can play</u> "		
6. "And I <u>can play</u> "		No linking between chat and
		audio files

## **Appendix Six**

## Adjacent and Near-Adjacent Pairs of Utterances Occurring in Interactions between Thomas and M

## 6.1. Thomas's Repetitions of M

# 6.1.1. Pairs Non-Matched for Segmental Realisation of the Potential Assimilation Sites, but Matched for all Prosodic Phenomena

Pair 1. Age 2;8;28

Speaker	Utterance	Realisation	Description of
			Phenomena
М	"You can get it 'out"	['kʰæ̃ŋ gɛt]	Velar assimilation
Thomas	" <u>Can get it</u> out"	['tʰæ̃n d̥ɛt̯]	Possible progressive
			alveolar assimilation

## 6.1.2. Pairs Matched for Assimilation and all Prosodic Phenomena

### Pair 2. Age 3;4;2

Note: This portion of interaction is unlike any other sampled, in that it contains an instance in which Thomas repeats after M, followed by a further repetition from M. The current focus is on M's first utterance and Thomas's repetition.

Speaker	Utterance	Realisation	Description of
			Phenomena
-			
М	* "On Bob the Builder,	['k <sup>h</sup> æm 'mɪks]	Assimilation.
	they say things like, " 'I		Rhythmic and
	'can`roll it", "'I <u>'can îmix</u>		formulaic
	it" (high falling), " <sub>I</sub> can		
	^dig it (low falling)" "		
Thomas	",I <u>can mix</u> it"	[k <sup>jh</sup> æ̃m <sup>'</sup> mĩks]	Assimilation. Less
			rhythmic, more like
			natural speech
М	",I <u>can mix</u> it"	['kʰæ̃n 'mɪks]	Open juncture. Less
			rhythmic, more like
			natural speech

# 6.1.3. Pairs Non-Matched for all Segmental and Prosodic Phenomena

Pair 3. Age 3;4;3

Speaker	Utterance	Realisation	Description of
			Phenomena
М	"You <u>can (0.5)</u>	$[xn (0.5) k^{h} a' lek^{t}]$	Open juncture
	<u>col'lect</u> it now, can't		
	you"		
Thomas	"I can collect it,	[k <sup>h</sup> ỡŋ k <sup>l</sup> ł'lɛ?t <sup>l</sup> ]	Strong form. Velar
	^now"		assimilation

## 6.2. M's Repetitions of Thomas

## 6.2.1. Pairs Matched for all Segmental and Prosodic Phenomena

Pair 1. Age 3;3;6

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"Erm 'you <u>can 'be</u> a 'girl (.) 'fast a sleep"	[k <sup>h</sup> æ̃mi]	Assimilation
М	"'I <u>can be</u> a 'girl 'fast a sleep"	[kʰṃ bɪ]	Assimilation

# 6.2.2. Pairs Matched for all Phenomena, Except for Overall Stress Pattern

#### Pair 2. Age 3;1;3

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	" <sub>I</sub> I <u>can (.)</u> <u>make</u>	['aı khậm (.) mei]	Assimilation with
	some~room 'now"		pause
М	"You <u>can make</u>	[k <sup>h</sup> m 'mer?k <sup>¬</sup> ]	Assimilation
	some room 'now?"		

### Pair 3. Age 3;4;3

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"Mummy, 'you <u>can be</u>	[k <sup>h</sup> æ̃m 'bij]	Assimilation
	a xxx (one syllable), to		
	set off, with my hat		
	on"		
М	"Sorry? I can (0.5) be	[k <sup>h</sup> m (0.5) bi]	Assimilation
	^what love?"		

## Pair 4. Age 3;7;3

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"~Mummy, (hiccup)	[kxæm bij]	Assimilation
	() <sup>'</sup> I <u>can be</u> a		
	^postman (.) 'can't (.)		
	^postman (.) 'can't (.) (hiccup) Î?"		
М	"You <u>can be a</u>	[kʰm bij]	Assimilation
	^postman?"		

## Pair 5. Age 3;7;4

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"You <u>can be a</u>	[kæ̃n 'bij]	Open juncture.
	^lady-'man''		Falling tone
Thomas	"I <u>can be</u> a big/bin	[kʰʌmˈˈbij]	Assimilation.
	man"		
М	"I <u>can be</u> a îlady-	[kʰə̃n bĭj]	Open juncture
	'man? 'What's a		
	^lady-'man?"		
	(Chuckling)		

## 6.2.3. Pairs Matched for all Phenomena Except Nuclear Tone

## Pair 6. Age 2;9;28

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	" <u>Can't close it</u>	[kãn? 'kləuz]	Non-assimilation
	'properly"		close juncture
М	"You <u>can'ť close</u> it	[khãn? 'kləʊz]	Non-assimilation
	'properly?"		close juncture

## Pair 7. Age 2;9;28

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"I <u>can't get</u>	['kʰãn gɛ̯?]	Non-assimilation
	^through,~now"		close juncture
М	"You <u>'can't get</u>	[k <sup>h</sup> ãn? gɛ?]	Non-assimilation
	`through?"		close juncture

## Pair 8. Age 3;10;2

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	",It's (.)~Springtime,	[g <sup>j</sup> ə̃m pleij]	Assimilation
	and (.) er Aunty		
	Mabels (.) is on at		
	'Springtime, and		
	'Mrs. 'Plattford said,		
	(.) "You <u>can play</u>		
	^out at 'Springtime" "		
М	" <sup>^</sup> Right"		
М	" Xxx (one		
	syllable)"		
М	",Aunty Mabel?		
	You're 'talking about		
	something on the		
	^television, at		
	<sup>^</sup> Sringtime, but		
	'Mrs. Plattford"		
Thomas	"no no no no no no		
	~no		
М	"Don't be silly		
	'Thomas 'please"		
М	"Mrs. Plattford is	[k <sup>h</sup> m pleɪj]	Assimilation
	the () 'nursery		
	<sup>^</sup> Teacher, from the		
	'nursery in the		
	'after noon 'isn't she,		
	and she said she		
	said you <u>can play</u> `out		
	in Springtime"		

## 6.2.4. Pairs Matched for Segmental Realisation of the Potential Assimilation Sites and Stress Pattern, but Non-Matched for Locus of Tonic Syllable and Nuclear Tone

### Pair 9. Age 3;3;4

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"You <u>can be a</u> 'postman	[ɣæ̃m bij]	Assimilation
	^changing it."		
М	"Alright. Yes"		
Thomas	"I <u>can 'be a</u> parcel"	[k <sup>h</sup> æ̃m bij]	Assimilation
М	* "You <u>can be</u> a	[kʰə̃m bɪ]	Assimilation
	'postman pre'tending (.)		
	that 'it's îlunchtime"		

#### Pair 10. Age 3;7;2

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	" Mummy, I <u>can't go to</u>	[khãn? gəu]	Non-assimilation
	^sleep. Mum" (falsetto,		close juncture
	creaky voice, whinging)		
М	"What do you mean	['khãn gəu]	Non-assimilation
	you <u>'can't go</u> to 'sleep?"		close juncture

#### Pair 11.

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"When I finished 'doing	[k <sup>h</sup> ə̃m (0.5) 'pleı]	Assimilation
	this printings, we can	·	
	(0.5) 'play fire-engines"		
М	* "Oh when we've	[k <sup>h</sup> m 'ple1]	Assimilation
	finished the printing we		
	can 'play 'fire-'engines.		
	^Yes. We`can"		

# 6.2.5. Pairs Matched for Segmental Realisation of the Potential Assimilation Sites, but Non-Matched for Prosodic Phenomena

## Pair 12. Age 2;9;23

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"I <u>can't get</u> it	[ <sup>1</sup> k <sup>h</sup> ãn? (C,Vd)ɛt]	Non-assimilation
	^open"		close juncture
М	* "no and I I <u>can't</u>	['khãn? gɛt]	Non-assimilation
	<u>get</u> it 'open"		close juncture

## Pair 13. Age 3;4;2

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	",Then you can put	[kæm }put]	Assimilation
	it în here"		
М	"That's right. From		
	that pot"		
М	"And we <u>can put</u> it	[k <sup>h</sup> m 'put]	Assimilation
	in there like that"		

## Pair 14. Age 3;7;2

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"You <u>'can't catch</u>	[ˈkʰãŋ? kætʃ]	Assimilation
	<u>'</u> me (be)cause 'I'm a		
	^sausage-'man''		
М	(Laughs)		
Thomas	(Laughs)		
М	"You <u>'can't catch</u>	[ˈkʰãŋʔ kʰæᢩtʃ]	Assimilation
	'me (be)cause I'm a		
	'sausage roll"		

## Pair 15. Age 3;7;4

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"I <u>can 'be</u> a 'big	[kæ̃m ˈmij]	Assimilation
	^grabber, ^couldn't 'I?"		
М	"You" <u>can be</u> . Yes"	[kʰæ̃m bi]	Assimilation

# 6.2.6. Pairs Non-Matched for all Segmental and Prosodic Phenomena

Pair 16. Age 3;2;6

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	" <sup>^</sup> Hey! <sup>'</sup> We <sup>~</sup> <u>can</u> ,	['khāe(Nas) mei?k]	Unclassifiable.
	<u>make</u> stickers 'now.		
	^Stickers"		
М	"We <u>can make</u>	[km̆ 'meik]	Assimilation
	~stickers now 'can we?"		

## 6.2.7. Pairs Matched Only for Stress Pattern

Pair 17. Age 3;3;2

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"And" then, we can	[k <sup>h</sup> æ̃n 'pleɪ]	Open juncture
	<u>play</u> with a tractor"		
М	"No don't touch!		
	Don't touch anything		
	now Thomas please!		
	Don't touch anything"		
М	"Yes You <u>can 'play</u>	[km 'pleɪ]	Assimilation
	with your 'tractor,		
	when you come		
	'down"		

## Pair 18. Age 3;7;1

Speaker	Utterance	Realisation	Description of Phenomena
Thomas	"Ah you <u>can't get '</u> me"	[ˈkẵŋ gɛ?]	Assimilation
М	"Tho <sup>4</sup> mas!"		
Thomas	(laughs)		
М	"Why? Are you the		
	~gingerbread-man?"		
Thomas	"Yeah" (laughs)		
М	"Is" that 'why I <u>'can't</u>	['khãn? ge?]	Non-assimilation
	<u>get</u> you?"		close juncture

## 6.2.8. Pairs Matched Only for Locus of Tonic Syllable

Pair 19. Age 3;3;2

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"'This <u>can 'be a</u> ~train-	[kʰæ̃ bįj]	Non-assimilation
	'spotter. And 'this"		close juncture
М	"Well you <u>can be</u> a	[kʰm̥ bɪ]]	Assimilation
	^plane-spotter, as well as		
	a~car-spotter"		

## Pair 20. Age 3;6;0

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"I 'can 'be 'one, and	[k <sup>h</sup> ãn (0.5) 'bij]	Strong form. Open
	'you can 'sit next to me,		juncture. Falling tone
	I <u>can (0.5)</u> 'be a driver"		
М	* "Oh but 'you <u>can be a</u>	[xm bij]	Assimilation
	~driver, and I'll look out,		
	and 'tell you what we		
	'have to lift up"		

6.2.9. Pairs Matched for Stress Pattern and Locus of Tonic Syllable, but Non-Matched for Segmental Realisation of Potential Assimilation Site and Nuclear Tone

Pair 21. Age 3;4;0

Speaker	Utterance	Realisation	Description of
			Phenomena
Thomas	"I <u>can mess</u> hair"	[k <sup>h</sup> ẫn mɛs]	Open juncture
М	"I can mess hair"	[k <sup>h</sup> m mɛs]	Assimilation

# 6.2.10. Pairs Matched for all Prosodic Phenomena, but Non-Matched for Segmental Realisation of Potential Assimilation Site

#### Pair 22. Age 3;4;2

Note: this pair comes from the same portion of interaction as pair 1 of Thomas's repetitions of M. The current focus is on Thomas's utterance and M's repetition.

Speaker	Utterance	Realisation	Description of
			Phenomena
М	* "On Bob the	[ <sup>'</sup> K <sup>h</sup> æm <sup>'</sup> mɪks]	Bilabial assimilation.
	~Builder, they `say		Rhythmic and
	things like, " 'I 'can		formulaic
	roll it", "I <u>can mix</u>		
	it" (high falling), " <sub>I</sub> I		
	can dig it (low		
	falling)" "		
Thomas	",I <u>can mix</u> it"	[k <sup>jh</sup> æ̃m ˈmĩks]	Bilabial assimilation.
			Less rhythmic, more
			like natural speech
М	",I <u>can mix</u> it"	['k <sup>h</sup> æ̃n 'mɪks]	Open juncture. Less
			rhythmic, more like
			natural speech