## **Appendix A : Master Information Chart**

Highlighted rows: Subjects disqualified from research sample

0 : Failed criterion

Subjects were sorted according to Graded Word Spelling Test scores and then systematically marked off into four groups within their grades.

		ade 5				;	Spelling [		years		Al		e of spec iculties	ific	dno	į.	
Parent's requested results of project	Sample Number	jects in Gra	Grade	Male / Female	Permission granted	ng Test	t Spelling	аgе	iculty	ıg for last 2	No WP experience	earing	fficulties	Functi mouse o		sample gr	Sample group number
Parent's results or	Sample	Number of subjects in Grade	Gr	Male /	Permissic	Graded Spelling Test Score	Age at Graded Word Spelling Test	Spelling age	Spelling difficulty	English schooling for last 2 years	No WP e	Functional hearing	No attention difficulties	Mouse tracking speed	Mouse control	Qualifying for sample group	Sample gr
	16	1	4	Boy	1	5	10-11	06-01	1	1	1	1	1	58	1	1	1
	18	1	4	Boy	1	7	12-00	06-04	1	1	1	1	1	55	1	1	2
	11	1	4	Girl	1	9	11-11	06-07	1	1	1	1	1	54	1	1	3
	17	1	4	Boy	1	9	11-00	06-07	1	1	1	1	1	40	1	1	4
	5	1	4	Boy	1	11	11-04	06-10	1	1	1	1	1	38	1	1	1
	27	1	4	Boy	1	11	10-05	06-10	1	1	1	1	1	60	1	1	2
	8	1	4	Girl	1	12	12-06	07-00	1	1	1	1	1	61	1	1	3
	21	1	4	Boy	1	12	11-03	07-00	1	1	1	1	1	42	1	1	4
	28	1	4	Girl	1	12	11-08	07-00	1	1	1	1	1	56	1	1	1
	12	1	4	Boy	1	13	10-02	07-01	1	1	1	1	1	62	1	1	2
	2	1	4	Boy	1	14	11-02	07-03	1	1	1	1	1	57	1	1	3
	22	1	4	Boy	1	14	10-06	07-03	1	1	1	1	0	50	1	0	
	24	1	4	Girl	1	14	10-11	07-03	1	1	1	1	1	53	1	1	4
	23	1	4	Boy	1	15	11-05	07-05	1	1	1	1	1	51	1	1	1
	10	1	4	Boy	1	16	10-06	07-07	1	1	1	1	1	64	1	1	2
	15	1	4	Boy	1	16	09-03	07-07	1	1	1	1	0	70	1	0	
	6	1	4	Boy	1	17	10-06	07-08	1	1	1	1	1	51	1	1	3
	19	1	4	Boy	1	17	11-04	07-08	1	1	1	1	1	41	1	1	4
	20	1	4	Girl	1	19	11-04	08-00	1	1	1	1	1	43	1	1	1
	7	1	4	Boy	1	21	10-00	08-04	1	1	1	1	1	51	1	1	2
	25	1	4	Boy	1	21	09-10	08-04	0	1	1	1	1	45	1	0	
	29	1	4	Boy	1	22	10-03	08-06	1	1	1	1	1	62	1	1	3
	1	1	4	Boy	1	23	10-06	08-08	1	1	1	1	1	50	1	1	4
	13	1	4	Girl	1	24	10-10	08-10	1	1	1	1	1	63	1	1	1
	26	1	4	Boy	1	24	10-10	08-10	1	1	1	1	1	49	1	1	2
	9	1	4	Boy	1	27	10-11	09-04	0	1	1	1	1	53	1	0	
	14	1	4	Boy	1	27	09-10	09-04	0	1	1	1	1	46	1	0	
*	3	1	4	Boy	1	28	11-02	09-06	0	1	1	1	1	50	1	0	
	4	1	4	Girl	1	29	09-11	09-08	0	1	1	1	1	43	1	0	

		ade 5				;	Spelling Difficulty			years		Al		e of spec iculties	ific	dno	ır
Parent's requested results of project	Sample Number	bjects in Gra	Grade	Male / Female	Permission granted	ling Test e	at I Spelling :	age	fficulty	ng for last 2	No WP experience	hearing	difficulties	Functi mouse o		ır sample gr	Sample group number
Parent's results	Sampl	Number of subjects in Grade	Э	Male	Permiss	Graded Spelling Test Score	Age at Graded Word Spelling Test	Spelling age	Spelling difficulty	English schooling for last 2 years	No WP	Functional hearing	No attention difficulties	Mouse tracking speed	Mouse control	Qualifying for sample group	Sample g
	54	1	5	Girl	1	8	12-11	06-05	1	1	1	1	1	48	1	1	3
	32	1	5	Boy	1	10	11-11	06-08	1	1	1	1	1	44	1	1	4
	53	1	5	Girl	1	10	12-00	06-08	1	1	1	1	1	51	1	1	1
	56	1	5	Boy	1	13	11-11	07-01	1	1	1	1	1	54	1	1	2
	59	1	5	Boy	1	14	11-10	07-03	1	1	1	1	1	46	1	1	3
	47	1	5	Boy	1	15	10-11	07-05	1	1	1	1	1	56	1	1	4
	31	1	5	Boy	1	17	10-10	07-08	1	1	1	1	1	43	1	1	1
	55	1	5	Boy	1	18	12-03	07-10	1	1	1	1	1	54	1	1	2
	41	1	5	Boy	1	19	10-07	08-00	1	1	1	1	1	63	1	1	3
	43	1	5	Boy	1	19	12-00	08-00	1	1	1	1	1	49	1	1	4
	48	1	5	Boy	1	19	11-10	08-00	1	1	1	1	1	52	1	1	1
	49	1	5	Boy	1	19	12-03	08-00	1	1	1	1	1	53	1	1	2
	34	1	5	Girl	1	21	12-00	08-04	1	1	1	1	1	48	1	1	3
*	57	1 1	5 5	Girl	1	21 21	12-06 12-04	08-04 08-04	1	1 1	1	1	1	54 41	1	1 1	4 1
	58 37	1	5 5	Boy	1	23	12-04	08-04	1	1	1	1	1	57	1	1	2
	51	1	5 5	Boy	1	23	11-06	08-08	1	1	1	1	1	57 44	1	1	3
	36	1	5	Boy	1	24	11-08	08-08	1	1	1	1	1	45	1	0	J
	39	1	5	Boy	1	24	12-08	08-10	1	1	1	1	1	46	1	1	4
	45	1	5	Boy	1	24	10-08	08-10	1	1	<u> </u>	1	1	39	1	1	1
	40	1	5	Girl	1	25	11-06	09-00	1	1		1	1	67	1	1	2
	44	1	5	Girl	1	26	11-10	09-02	1	1	1	1	1	56	1	1	3
	33	1	5	Boy	1	27	12-03	09-04	1	1	l ;	1	1	36	1	1	4
	30	1	5	Boy	1	28	11-03	09-06	1	1	1	1	1	56	1	1	1
	35	1	5	Girl	1	28	12-04	09-06	1	1	1	1	1	39	1	1	2
	38	1	5	Girl	1	29	12-00	09-08	1	1	1	1	1	51	1	1	3
	42	1	5	Boy	1	29	11-10	09-08	1	1	1	1	1	49	1	1	4
	52	1	5	Boy	1	30	13-04	09-10	1	1	1	1	1	45	1	1	1
	61	1	5	Girl	1	30	11-06	09-10	0	1	1	0	1	69	1	0	
	46	1	5	Boy	1	32	12-06	10-03	1	1	1	1	1	56	1	1	2
	60	1	5	Boy	1	35	12-00	10-10	0	1	1	1	1	42	1	0	
	50	1	5	Girl	1	37	11-02	11-02	0	1	1	1	1	49	1	0	

		ade 5				:	Spelling Difficulty			; years		Al		e of speci	fic	dno	J.
Parent's requested results of project	Sample Number	bjects in Gra	Grade	Male / Female	Permission granted	ling Test e	at I Spelling :	age	fficulty	ng for last 2	No WP experience	hearing	difficulties	Function mouse of		ır sample gr	Sample group number
Parent's results	Sample	Number of subjects in Grade	9	Male,	Permiss	Graded Spelling Test Score	Age at Graded Word Spelling Test	Spelling age	Spelling difficulty	English schooling for last 2 years	No WP	Functional hearing	No attention difficulties	Mouse tracking speed	Mouse control	Qualifying for sample group	Sample g
	91	1	6	Girl	1	6	13-06	06-02	1	1	1	1	1	45	1	1	3
	97	1	6	Boy	1	11	13-05	06-10	1	1	1	1	1	53	1	1	4
	67	1	6	Boy	1	13	13-01	07-01	1	1	1	1	1	40	1	1	1
	88 98	1	6	Boy	1	13 13	12-03 12-10	07-01 07-01	1	1 1	1	1 1	1	42 42	1 1	1 1	2
	74	1	6	Boy Boy	1	15	13-05	07-01	1	1	1	1	1	50	1	1	4
	71	l	6	Boy	1	17	11-07	07-08	1	1	1	1	1	39	1	1	1
	85	1	6	Boy	1	17	12-07	07-08	1	1	1	1	1	47	1	1	2
	83	1	6	Boy	1	18	13-01	07-10	1	1	1	1	1	44	1	1	3
	96	1	6	Boy	1	18	11-10	07-10	1	1	1	1	1	46	1	1	4
	80	1	6	Boy	1	19	12-10	08-00	1	1	1	1	1	43	1	1	1
	72	1	6	Boy	1	20	11-07	08-02	1	1	1	1	1	41	1	1	2
	79 87	1	6	Boy	1	21 21	12-00 14-02	08-04 08-04	1	1 1	1	1	1	48 43	1 1	1 1	3 4
	93	¦	6	Boy Girl	1	21	12-03	08-04	1	1	1	1	1	49	1	1	1
	86	1	6	Girl	1	24	12-08	08-10	1	1	1	1	1	45	1	1	2
	90	1	6	Girl	1	24	13-01	08-10	1	1	1	1	1	58	1	1	3
*	94	1	6	Boy	1	24	12-01	08-10	1	1	1	1	1	49	1	1	4
	62	1	6	Boy	1	25	12-05	09-00	1	1	1	1	1	34	1	1	1
	68	1	6	Girl	1	26	13-01	09-02	1	1	1	1	1	51	1	1	2
	81	1	6	Boy	1	26	12-08	09-02	1	1	1	1	1	37	1	1	3
	78 99	1	6	Boy	1	27 27	13-04 13-05	09-04 09-04	1	1 1	1	1	1	45 38	1 1	1 1	4 1
	70		6	Boy Girl	1	28	12-05	09-04	1	1	1	1	1	40	1	1	2
	73	<u>'</u>	6	Girl	1	28	12-10	09-06	1	1	1	1	1	62	1	1	3
	77	1	6	Boy	1	29	12-00	09-08	1	1	1	1	1	43	1	1	4
	69	1	6	Girl	1	30	12-00	09-10	1	1	1	1	1	43	1	1	1
	76	1	6	Girl	1	30	12-08	09-10	1	1	1	1	1	44	1	1	2
	95	1	6	Girl	1	30	12-01	09-10	1	1	1	0	1	42	1	0	
	64	1	6	Boy	1	31		10-01	1	1	1	1	1	44	1	1	3
	89	1	6	Boy	1	31		10-01	1	1	1	1	1	37	1	1	4
	66 65	1	6	Girl Boy	0	37 40		11-02 11-08	0	1 1	1	1 0	1	47 40	1 1	0	
	84		6	Girl	0	41		11-10	1	1	1	1	1	41	1	0	
	92	1	6	Girl	1	41		11-10	1	1	1	1	1	56	1	1	1
	82	1	6	Girl	1	44		12-06	0	1	1	1	1	55	1	0	
	75	1	6	Boy	1	46	11-10	12-10	0	1	1	1	1	39	1	0	
	63	1	6	Boy	1		12-07		1	1	0	1	1	171	0	0	
al		99			97				88	99	98	96	97	FO 00	98	81	

Total 99 97 88 99 98 96 97 98 Average 50.03

## $\label{eq:Appendix B} \textbf{Appendix B: Headmaster's letter of permission for the pilot study}$

The Principal KING'S SCHOOL BRYANSTON
Dear Mr Moore
I request permission to conduct a research project amongst the Grade 3 to Grade 6 children of Forest Town School.
The research is in partial fulfilment of the requirements for the Masters in Augmentative and Alternative Communication Degree through the University of Pretoria. The purpose of the study is to investigate the usefulness of Word Prediction software to serve as writing support where there are spelling and writing difficulties. The project entails each child executing two short computer tasks, with and without the aid of word prediction, and evaluating the relative effectiveness of the two approaches in terms of speed and quality of output.
The study will require each child to leave the classroom for twenty to thirty minutes. Great care will be taken to minimise the impact of the study on academic school time. Also, the children's anonymity in the publication of the research results is assured. A research assistan will be employed (at the researcher's own expense) to help administer the tests, so as to minimise the impact on the therapist's working time.
A summary of the research results will be available to any staff, parents or interested persons and a full copy of the completed research project will be given to Forest Town School. The outcome of the project is expected to have direct potential applicability in the remedial approach of the learners at Forest Town School.
The permission of the parents of each of the children involved in the study will be secured before testing commences, as well as the permission of the Gauteng Department of Education All the relevant teachers will be informed and their support secured.
I would appreciate it if you would consider this request favourably and sign below to acknowledge your permission.
Thank you
Marina Herold Date Occupational Therapist

Date

Mr Moore

Principal of The King's School Bryanston

### Appendix C: Parent's letter of permission for the pilot study

13<sup>th</sup> March 2003

**Dear Parents** 

I am conducting the pilot study of a research project amongst the Grade 2 to Grade 5 children of The King's School Bryanston and request permission to use your child as one of the participating subjects.

The research is in partial fulfillment of the requirements for the Masters in Augmentative and Alternative Communication Degree through the University of Pretoria. The purpose of the study is to investigate the usefulness of Word Prediction software to serve as writing support where there are spelling and writing difficulties. The project entails each child doing a handwritten spelling test, and then executing two short computer tasks, with and without the aid of word prediction, and evaluating the relative effectiveness of the two approaches in terms of speed and quality of output.

The main study will be conducted at a school for children with learning impairments. It is only the pilot study which will be conducted at your child's school. The pilot study serves to validate procedural aspects of the study, to identify weaknesses in the flow of the test program and instructional difficulties, and to determine whether the test program is indeed valid in testing for the criteria it is designed to test.

Teachers have been requested to select randomly for the study 5 children from each of the participating grades. Your child was one of the chosen ones. Your child will be required to leave the classroom for approximately ½ hr for the research task but care will be taken to minimize the impact on his/her academic time. Testing will commence on 24<sup>th</sup> March and continue each day thereafter until all the children have been tested. Your child's anonymity in the research results is assured. The test program is not in any way threatening to the children and it is envisaged that most will consider it a fun experience. Each participating child will be rewarded with a chocolate as a thank you gift.

I would be glad to answer any questions that you may have and would appreciate it if you would sign the consent form below and return it to your child's teacher.

Marina Herold	Mr Moore
Occupational Therapist	Principal of The King's School Bryanston
Enquiries: 463-5203	
×	
My child	MAY / MAY NOT participate in the research
project on the effectiveness of word prediction so	
Signature of parent / guardian	Date
Signature of parent / guardian	Date
Your child's Grade	Your child's Date of Birth

## Appendix D: Vocabulary list in word prediction lexicon

Note: The words in **bold enlarged font** are the ones used for the research's two wordlists.

The words in **bold enlarged underlined letters** are the three word pairs not found in Penfriend's Default Lexicon List, but added to normalise the experience of using word prediction.

The words in *bold enlarged italicised letters* are the words added to Penfriend's vocabulary for the research project.

$\mathbf{A}$	although	arrived	bank	big
a bit	always	art	bar	bigger
a bit a few	am	as	bare	bike
a little	amazing	as far as	barked	bird
	among	as if	barking	birds
a lot	an	as long as	bath	birthday
able	Anabelle	as soon as	bathroom	biscuits
about	ancient	as though	be	bit
above	and	as well	beach	bits
absolutely	anger	as well as	bean	black
accident	angle	aside	bear	blanket
across	angles	ask	beast	blew
act	angrily	asked	beautiful	blinked
action	angry	asking	because	blob
actually	animal	asleep	because of	blood
add	animals	at	become	bloody
added	announced	at all	bed	blow
admit	another	at first	bedroom	blue
advice	answer	as last	been	board
afraid	answered	as least	before	boat
after	answers	at once	beg	body
afternoon	anxiously	ate	began	bones
afterwards	any	attack	begin	book
again	anybody	attempt	beginning	books
against	anyone	attention	begun	boots
age	anything	attic	behind	
ages	anyway	August	being	born both
ago	anywhere	awake	believe	
agree	apart		believed	bother
agreed	apart from	aware	bell	bothered
ah	appearance	away	belong	bottle
ahead	appearance	away form	below	bottom
ain't	apple	awful	belt	bought
air	apples	aye	beneath	bound
alive	April		bent	bowl
all	are	В	beside	box
all right		baby	besides	boxes
all the same	area aren't	back		boy
allowed		backwards	best bet	boy's
almost	arm	bad		brain
alone	armchair	badly	better	branch
along	arms	bag	between	branches
already	around	ball	beyond	brave
also	arranged	vali	bible	bread
arso				

break	cards	climbed	crazy	despite
breakfast	care	climbing	cream	determined
breath	careful	clock	creative	did
breathing	carefully	close	creatures	didn't
breeze	carol	closed	crept	die
		closer	cried	died
bridge	carpet	cloth	cross	difference
brilliant	carried	clothes	crossed	different
bring	carry	cloud		difficult
broad	carrying	clouds	crouched crowd	
broke	cars			difficulty
broken	cart	clown	crown	dinner
brother	case	coat	cry	direction
brothers	cast	coffee	crying	directly
brought	castle	cold	crystal	dirty
brown	cat	collar	cup	disappeared
brownie	catch	coloured	cupboard	discovered
brownies	caught	colours	curious	dish
bucket	ceiling	come	curtain	distance
building	centre	comes	curtains	do
buildings	certain	comfort	cut	doctor
built	certainly	comfortable	cutting	does
bully	chair	coming	cutting	doesn't
bunch	chairs	commander	D	dog
bunny	chance	common	D	dogs
buried	change	company	d'you	doing
burned	changed	competition	dad	don't
burning	check	complete	dad's	done
burst	cheek	completely	daddy	door
bus	cheeks	considered	daft	doors
business	cheerful	continued	damp	doorway
busy	cheese	control	dance	double
but	chest	conversation	dancing	doubt
butler	chief	cook	danger	downstairs
buy	child	cool	dangerous	dragged
by	children	copy	dare	drank
by now	chin	corner	dared	draw
•	China	correct	dark	drawing
C	chocolate	corridor	darkness	drawn
	choice	corridors	darling	dreadful
cage	choose	cost	daughter	dream
cake	chosen	cottage	dawn	dress
call	Christian	cotton	day	dressed
called	Christmas	could	days	drew
calling	church	couldn't	dead	drink
calls	cigar	counter	dear	drinking
calm	circle	countries	death	drive
came	city	country	December	driving
can	clan	couple	decided	drop
can't	class	courage	decimal	dropped
canal	clean	course	deep	drove
candle	clear	cousin	definitely	drunk
cannot	cleared	cover	delighted	dry
cap	clearly	covered	demanded	ducks
captain		covered	desk	during
car	clever climb	crack	desperate	dust
card	CIIIIIU	crawled	desperately	dirty
		-10001200	permiery	

dying	everybody	feed	force	getting
	everyone	feel	forced	ghost
${f E}$	everything	feeling	forehead	ghosts
	everywhere	feelings	forest	giant
each	evil	feet	forget	girl
each other	exactly	felt	forgotten	girls
ear	example	fence	form	give
earlier	except	fetch	forward	given
early	excited	few	forwards	giving
ears	excitement	field	found	glad
earth	exciting	fields	fountain	glance
easier	exclaimed	fifty	four	glanced
easily	excuse	fight		glared
easy	exercise	fighting	fraction	glass
eat	exhausted	figure	free	glasses
eaten			fresh	_
eating	expect	figures fill	Friday	glory
edge	expected		fridge	go
Edinburgh	explain	filled	friend	god
effort	explained	film	friendly	goes
egg	expression	finally	friends	going
eggs	extra	find	frightened	gold
eh	extraordinary	finding	frog	golden
eight	eye	fine	from	gone
either	eyebrows	finger	front	good
	eyes	fingers	frowned	goodbye
else		finish	fruit	goodness
empty	${f F}$	finished		got
end	<del>-</del>	fire	full	grabbed
ended	face	firelight	fun	got
endill	faces	firm	funny	grabbed
enemy	fact		fur	grand
engine	factory	firmly	furious	
	<u> </u>	£:		grandfather
England	faint	first	furniture	grandfather graph
England English	<u> </u>	fish	furniture further	graph
England	faint fair	fish fist		graph grass
England English	faint fair <u>fairy</u>	fish fist fit	further	graph grass grateful
England English enjoy	faint fair	fish fist fit fire	further ${f G}$	graph grass grateful great
England English enjoy enjoyed	faint fair <b>fairy</b> fairly fall	fish fist fit fire fixed	further <b>G</b> game	graph grass grateful great green
England English enjoy enjoyed enormous	faint fair <u>fairy</u> fairly fall fallen	fish fist fit fire fixed flat	further  G game games	graph grass grateful great green grew
England English enjoy enjoyed enormous enough	faint fair <u>fairy</u> fairly fall fallen falling	fish fist fit fire fixed flat flesh	further <b>G</b> game	graph grass grateful great green grew grey
England English enjoy enjoyed enormous enough eat	faint fair <b>fairy</b> fairly fall fallen falling familiar	fish fist fit fire fixed flat flesh flew	further  G game games garden	graph grass grateful great green grew grey grin
England English enjoy enjoyed enormous enough eat entered entrance	faint fair fairy fairly fall fallen falling familiar family	fish fist fit fire fixed flat flesh	further  G game games garden gary	graph grass grateful great green grew grey grin grinned
England English enjoy enjoyed enormous enough eat entered entrance envelope	faint fair fairy fairly fall fallen falling familiar family famous	fish fist fit fire fixed flat flesh flew	further  G game games garden gary gas	graph grass grateful great green grew grey grin grinned grinning
England English enjoy enjoyed enormous enough eat entered entrance envelope equal	faint fair fairy fairly fall fallen falling familiar family famous fancy	fish fist fit fire fixed flat flesh flew floor flowers	further  G game games garden gary gas gasped	graph grass grateful great green grew grey grin grinned grinning grip
England English enjoy enjoyed enormous enough eat entered entrance envelope equal er	faint fair fairy fairly faill fallen falling familiar family famous fancy far	fish fist fit fire fixed flat flesh flew floor flowers fling	further  G game games garden gary gas gasped gate	graph grass grateful great green grew grey grin grinned grinning grip ground
England English enjoy enjoyed enormous enough eat entered entrance envelope equal er erika	faint fair fairy fairly faill fallen falling familiar family famous fancy far farm	fish fist fit fire fixed flat flesh flew floor flowers fling fly	further  G game games garden gary gas gasped gate gates	graph grass grateful great green grew grey grin grinned grinning grip ground grasp
England English enjoy enjoyed enormous enough eat entered entrance envelope equal er erika escape	faint fair fairy fairly faill fallen falling familiar family famous fancy far farm farmer	fish fist fit fire fixed flat flesh flew floor flowers fling fly flying	further  G game games garden gary gas gasped gate gates gathered	graph grass grateful great green grew grey grin grinned grinning grip ground grasp grow
England English enjoy enjoyed enormous enough eat entered entrance envelope equal er erika escape escaped	faint fair fairy fairly faill fallen falling familiar family famous fancy far farm farmer fast	fish fist fit fire fixed flat flesh flew floor flowers fling fly flying folded	further  G game games garden gary gas gasped gate gates gathered gathering	graph grass grateful great green grew grey grin grinned grinning grip ground grasp grow growing
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hated home interested knew lessons hatred honest interested knock let's have hope interrupted knock let's haven't hoped into knocking letters having hoping invited knocking letters hay horrible iron know letting he horror is known lid he'll horse isn't knows lie he's hospital it lies head hot it'll L life headmaster hour it's ladder hear houses hours itself ladder houses hours how J laddy lights heard how J laid like hearrd how J laid like hearrd huge jacket lamp likely hundred heady hundred heady hundred hung jazz lap lines hedge hung jazz larger lips head lines hedge hungry jerked larger lips head lines hedge hungry jerked larger lips head lines head lines heady lines heady lines heady lines heady lines heady land lines heady lines heady lines heady land lines heady land lines heady land lines heady land lines heady lines land lines heady langy jazz lap lines head lines head langy lips lines head langy lips lines heady langy jazz large lips head larger lips	hat	holes			less
hatred honest interesting knife let have hope interrupted knock let's haven't hoped into knocked letter having hoping invited knocking letters hay horrible iron know letting he horror is known lid horse isn't knows lie he's hospital hot hot it'll L life headmaster hour it's lad lad lift house house house heard how J laid like hearr houses jack lady lights heard how J laid like heart huge jacket lamp likely hundred hung jazz lap lines hedgehog hungry jerked larger lips		holiday			lesson
have hope interrupted knock let's haven't hoped into knocked letter having hoping invited knocking letters hay horrible iron know letting he horror is known lid known lid horse island known lid horse isn't knows lie head hot it'll L life headmaster hour it's lad lift house house itself ladies light hear how J laid like hear how J laid like hear huge jacket lamp likely humdred hung jazz lap lines hedge hungry jerked larger lips		home			lessons
haven't hoped into knocked letter having hoping invited knocking letters hay horrible iron know letting he horror is known library he'd horse island known library he'll horses isn't knows lie he's hospital it lies head hot it'll L life headmaster hour it's lad lift headmistress hours its lad lift heads house heard how J ladder lifted heard how J laid like heard how J laid like heart huge jacket lamp likely human hundreds hung jazz lane lined hedgehog hungry jerked larger lips		honest			let
having hoping invited knocking letters having hoping invited know letting he horrible iron know letting he horror is knowing library he'd horse island known lid he'll horses isn't knows lie he's hospital it lies head hot it'll L life headmaster hour it's lad lift headmistress hours its lad lift heads house itself ladies light heard how J laid like heard how J laid like hearing however jack lake liked heart huge jacket lamp likely heat human jail land line heavy hundreds J January lane lined hedge hung jazz lap lines heard hugry jerked hurried liegans larger lips		hope	=		let's
hay horrible iron know letters hay horrible is knowing letting he horror is known library he'd horse island known library he'll horse isn't knows lid he'll horses it lie he's hospital hot it'll L life headmaster hour it's lad lift headmistress hours its lad lift house hear houses hear how J ladder light hearing how V J laid like heart huge jacket lamp likely human jail human jail land likes heavy hundred jam landed line hedge hung jazz lap lines held hugry jerked hungry jerked hurried liegens light lips hurried liegens light lips lips larger lips		hoped			letter
hay he horrible he horror he'd horse he's hospital head hot headmaster heads house hear houses hear houses hear houses heard how heard how heard how heart huge heart heat huge jacket lamp heat huge jacket lamp heat human heat huge jacket lamp heat land likes heavy human jail land likes heavy hundred jam landed line hedge hung jazz lap lines held huggy jerked hugge lipp hurried	_	hoping		_	letters
he'd horse island known library he'd horse island known lid he'll horses isn't knows lie he's hospital it lies head hot it'll L life headmaster hour it's lad lift heads house heard houses how J lady lights heard how J laid like heart houge jackt lake liked heart huge jackt lamp likely human jail land likes heavy hundred jam landed line hedge hung jazz lap lines held hungry jerked larger lips		horrible			
he'd horse island knows lid lie horses isn't knows lid lie he's hospital it lies head hot it'll L life headmaster hour it's lad lift heads hours its ladder lifted hear house hear house J ladies light heard how J laid like heart however jack lake liked heart houge jacket lamp likely heavily human jail land likes heavy hundred jam landed line hedge hedgehog hungry jerked large lips		horror		. •	-
he's hospital it lies head hot it'll L life headmaster hour it's lad lift headmistress hours its ladder lifted hear houses heard how J laid like hearing however jack lake liked heart huge jacket lamp likely heavy hundred jam landed line heavy headge heung jazz lap lines head hung jazz lap lines head hungry jerked large lips		horse			
head hot it'll L life headmaster hour it's lad lift headmistress hours its ladies light hear houses lady lights heard how J laid like hearing however jack lake liked heart huge jacket lamp likely heat human jail land likes heavy hundred jam landed line hedge hedgehog hung jazz lap lines held hurried jeans larger lips		horses		KIIOWS	lie
headmaster hour it's lad lift headmistress hours its ladies lifted heads house hear houses lady light heard how J laid like hearing however jack lake liked heart huge jacket lamp likely heat human jail land likes heavy hundred jam landed line hedge heng hung jazz lap lines held hungry jerked large lip hell hurried jeans larger lips		hospital		_	lies
headmistress hours its ladder lifted heads house heard how bearing heart houge jack lake lamp likely heart houge jacket lamp likely heavily hundred heavy hundreds houge jazz lap lines hedgehog held hungry jerked large lips		hot		L	life
heads house houses heard how J laid like hearing however jack lake liked heat houge jacket lamp likely heavily human jail land likes heavy hundreds heade hung jazz lap lines held hungry jerked large lips		hour		lad	lift
hear houses how J lady lights hearing however jack lake liked heart huge jacket lamp likely heavily human jail land likes heavy hundreds hunge jazz lap lines hedgehog hungry jerked large lips		hours		ladder	lifted
heard houses how J lady lights hearing however jack lake liked heart huge jacket lamp likely heavily human jail land likes heavy hundred jam landed line hedge hedgehog hung jazz lap lines held hurried jeans larger lips		house	itseii	ladies	light
hearing how jack lake liked heart huge jacket lamp likely heavily hundred jam landed line hedge hung jazz lap lines held hungry jerked large lips		houses	_	lady	
heart huge jacket lamp likely heavily hundred jam landed line hedge hung jazz lap lines held hungry jerked large lips		how	J	•	
heat huge jacket lamp likely heavily hundred jail land likes heavy hundreds jam landed line hedge hung jazz lap lines held hungry jerked large lip hell hurried jeans larger lips		however	jack	lake	liked
heavily hundred jail land likes heavy hundreds jam landed line hedge hung jazz lap lines held hungry jerked large lip hell hurried jeans larger lips		huge	•	lamp	likely
heavy hundred jam landed line heavy hundreds January lane lined hedge hung jazz lap lines held hungry jerked large lip hell hurried jeans larger lips			•	-	•
hedge hung jazz lap lines hedgehog hungry jerked large lip held hurried jeans larger lips	•		•		
hedgehog hungry held hurried jazz lap lines lines large lip hell lips	•			lane	
held hungry jerked large lip hell hurried jeans larger lips		_	•	lap	lines
hell hurried jeans larger lips			•	=	lip
hurry			•	_	_
	11011	hurry	•		

list	March	most	none	other
listen	mark	mostly	nonsense	others
lit	market	mother	nor	otherwise
little	married	mother's	normal	ought
live	master	mould	nose	our
lived	match	mountain	not	out
lives	<i>matches</i>	mouse	note	out of
living	matter	mouth	notes	outside
local	May	move	nothing	over
lock	maybe	moved	notice	owl
locked	me	movement	noticed	own
London	meal	moving	November	owner
lonely	mean	much	now	
long	means	mud	now that	P
longer	meant	mum	nowhere	
look	measure	mummy	number	pack
looked	meat	murmured	numbers	<u>packet</u>
looking	meet	music	nurse	packed
looks	meeting	must	nutty	page
loose		mustn't	•	pages
lord	memory men	muttered	O	paid
lose		my	_	pain
lost	mention	myself	o'clock	paint
lot	mess	mysen	obvious	painted
lots	message	<b>™</b> T	obviously	pair
loud	met metal	N	odd	palace
loudly	metal	nails	of	pale
love	method	name	of course	paper
loved	meters	names	off	papers
lovely	middle	narrow	offer	parents
low	midnight	nasty	offered	park
lower	might miles	natural	office	part
luck		near	official	parts
lucky	milk	nearer	often	party
lump	mill	nearly	oh	pass
lunch	mind	neck	oil	passage
lying	mine	need	OK	passed
, 6	minute	needed	old	past
<b>1</b> 1	minutes	needs	older	patch
$\mathbf{M}$	mirror	neither	on	path
machine	miserable	nervous	on to	pattern
machines	miss	nest	on top of	pause
mad	missed	never	once	paused
made	mistake	new	one	pay
magic	mixed	news	ones	peace
magician	mixture	newspaper	only	peculiar
main	moment	next	on to	peered
make	Monday	next to	open	pencil
makes	money	nice	opened	people
making	monster	no	opening	perfect
man	month	no longer	opposite	perfectly
man's	months	no one	or	perhaps
managed	mood	no-one	orange	person
manner	moon	nobody	order	pet
many	more	nodded	ordered	phone
map	morning	noise	ordinary	photograph
		110100		r

pick	private	reason	sat	shock
picked	probably	reckon	Saturday	shocked
picking	problem	red refused	save	shoes
picture	problems	relief	saw	shone shook
pictures	promise promised	remained	say	shoot
piece	*	remember	saying	shooting
pieces	proper properly	remembered	says scared	shop
pile	proud	remembering	scene	shops
pink	-	reminded	school	short
pipe	pull	repeated	Scotland	shot
pit	pulled	replied	scream	should
pity	pulling	reply	screamed	shoulder
place	pupils	rest	screaming	shoulders
placed	push	return	screen	shouldn't
places	pushed	returned	sea	shout
plain	pushing	rich	seat	shouted
plan	put	rid	second	shouting
plane	putting	ride	seconds	show
plant	puzzled	riding	secret	showed
plants		right	see	showing
plate	Q	_	seeing	shown
play played	queen	ring rising	seem	shrugged
playground	queer	river	seemed	shut
playing	question	riverbank	seems	sick
please	questions	road	seen	side
pleased	quick	rock	sell	sides
pleasure	quickly		send	sideways
plenty	quiet	<u>rocket</u> roll	sense	sighed
pocket	quietly	rolled	sent	sight
point	quite	roof	September	sign
pointed	•		serious	silence
pointing	R	room rooms	set	silent
points			sets	silently
police	rabbit	rope rose	settled	silly
policeman	raced	rough	seven	silver
polished	radish	round	several	simple
politely	rage	row	shadow	simply
pony	railway	rows	shaking	since
pool	rain rainbow	rubbed	shell	singing
poor	raised	rubbish	shape	single
position	ran	run	share	sink
possible		running	sharp	sir
possibly	rang range	rushed	sharply	sister
post	rather		she	sit
potatoes	rather than	S	she'd	sitting
pounds	reach		she'll	six
pored	reached	sad	she's	size
power	read	safe	shed	skin
prepared	reading	said	sheep	skull
present	ready	sailing	shelf	sky
pressed	real	sake	shelves	slave
pretty	realised	salt	shining	slaves
princess	realized	same	ship	sleep
prison	really	Sammy	ships	sleeping
	<i>J</i>	sank	shirt	sleeve

slept	stairs	suit	that that's	toilet
slid	stand	summer	the	told
slightly	standing	sun	theatre	tomorrow
slip	star	Sunday	thee	tone
slipped	stared	supper	there	tongue
slope	staring	support	them	tonight
sloped	stars	suppose	themselves	too
slowly	start	supposed	then	took
small	started	sure	there	top
smaller	starting	surely	there'd	torch
smell	startled	surface	there's	total
smile	state	surprise	these	touch
smiled	station	surprised	they	touched
smiling	stay	swallowed	they'd	towards
smoke	stayed	swan	they'll	town
smooth	steady	sweeping	they've	track
snapped	Stella	sweet	thick	train
snow	step	sweets	thief	training
so	stepped	swim	thin	tramp
so that	steps	swimming	thing	trap
soft	stick	switched	things	tray
softly	sticking	swung	think	treat
sold	sticks	swung	thinking	tree
some	stiff	<b>T</b> D	thinks	trees
somebody	still	T	third	trembling
somehow	stomach	table	this	triangle
someone	store	tail	those	triangles
something	stones	take	though	tried
sometimes	stood	taken	thought	trouble
somewhere	stop	takes	•	trousers
son	stopped	taking	thoughtfully	true
soon	stopping	talk	thoughts	trust
sorry	stories		thousand	truth
sort	story	talked	thousands	try
soul	straight	talking	three	trying
sound	strange	tall	threw	Tuesday tunnel
sounded	straw	taste	throat	
sounds	street	taught	through	turn
		tea	throw	turned
space	streets strength	teach	throwing	turning
spare speak	stretched	teacher	thrown	turns
-		teachers	thrust	twelve
speaking	string	team	thumb	twenty
special	strong	tears	Thursday tide	twice
speed	struck	teeth	tied	twins
spell	struggled	telephone	tight	two
spend	stuck	television	till	
spent	students	tell	time	U
spirit	study	telling	times	unable
spirits	stuff	tells	tin	uncle
split	stuffed	ten	Tina	under
spoke	stupid	terrible	tiny	underneath
spot	such	terrified	tip	understand
spread	sudden	than	tired	understand
spring	suddenly	thank	to	uniform
square	sugar	thanks	today	
stage	suggested		together	unless

until we'd without up we'll woke up to we've woman upon wear woman's upset wearing women upstairs won weather won't us Wednesday use wonder week used wondered weeks useful wonderful weight using wondering welcome usual wood well wooden usually went woods were wool  $\mathbf{V}$ weren't word wet van words what very wore what's view work whatever village worked wheel visit working when voice world where worm where's W worried whether worry wait which worse waited while worst waiter whispered worth waiting white would wake who wouldn't walk who's wrapped walked whole write walking whom writing wall whose written walls why wrong want wide wrote wife wanted wanting wild  $\mathbf{X}$ wants will willing war warm win warned wind Y window warning yard windows was year wash wine years wings washed yelled washing winter yellow wasn't wiped waste wire yer watch yes wise watching yesterday wish water yet wished waved you witch waves you'd witches you'll way with

within

we

young younger yours yours

 $\mathbf{Z}$ 

you've

Appendix E : Specific outcomes of the Foundation Phase according to the Gauteng Department of Education

Assessment Criteria	Performance Indicator	Level of Complexity	Exter	nsion Steps		
	When learners can create a personal text and communicate it orally and visually.	Tell/illustrate personal experiences	Tell ideas and feelings	Share opinions and decisions and use emergent writing		
		Recognise that symbols convey meaning including the sense of the appropriate use of capital letters				
	Engage with different	Develop directionality and orientation	Refine hand writing,	Further refine had		
Original meaning is created through personal texts	handwriting/production skills in order to develop a personal strategy for recording	Develop and refine the ability to form letters/symbols	production, giving attention to size, shape,	writing/production, giving attention to speed and		
	communication.	Clusters/spaces letters/symbols to form meaningful words and patterns	formation and legibility	personal style		
		Experiment with phonetic spelling				
	Communicate a creative range of personal texts in <u>writing</u> .	Write phrases and sentences which are familiar	Writes sentences using a wider vocabulary and logical structure	Writes for different purposes and audiences e.g. letters, newspaper reports, poetry		
A key message is identified and clarified	Listen with understanding in order to identify, clarify and respond to a key message.	Auditory skills are applied in the following activities: Listening and responding kinaesthetically/orally/visually to sounds, instructions/directions, questions, conversations, short stories, TV/radio and tapes	Listen and respond orally/visually to more complex stories poetry, plays and music	Listen and respond in writing to a range of inputs		
Meaning is created through reading	Show his/her understanding of a written text by using a range of decoding and comprehension skills to make meaning	Develop basic perceptual skills (auditory and visual), decoding skills (phonetic, visual and contextual cues) and comprehension skills	Further developing perceptual skills (auditory and visual), decoding skills (phonetic, visual and contextual cues) and comprehension skills	Develop more advanced perceptual skills (auditory and visual), decoding skills (phonetic, visual and contextual cues) and comprehension skills.		

### Appendix F: Grade 3 phonics

To select the words for the research task wordlists, the following approach was taken.

- 1. The Grade 3 syllabus of the special education school where the research project was done was taken as a foundation. The curriculum was typed out exactly as presented in the school's lesson plan. Because only 40 words would be used for the pilot study task, a word could not be found for every element of the curriculum. The curriculum was thus sorted into a table of logical units, so that a balanced and full range of words representing all of the logical units could be chosen.
- 2. The Grade 3 curriculum of the pilot study school was then compared to that of the previous curriculum. Where the second curriculum had additional items to the first one, they were added to the table. The additional items are printed in **bold**. It can be seen that there were not many differences.
- 3. Thirdly, the syllabus of a local government mainstream school was consulted and a couple of additional curriculum items were added to the table. These appear in *italics*.

Some of the units are represented by more words than others, simply because of their sheer weight of representation in the English language. These are short vowel sounds, consonant blends and consonant digraphs. Many of the words fall into more than one category eg sleeping and sweeping fall into 'Initial consonant blends', as well as 'Vowel digraphs' and 'Important suffixes'.

Spelling curriculum (grouped into large units)	Words ch	Words chosen for the two wordlists								
Lesson										
1 Revision of Grade 2 work (Assessment and consolidation of gra	ade two phonics)									
1.1 All letter sounds of alphabet										
Spelling patterns relate	ed to consonant	S								
Digraphs										
1.4 Consonant digraphs – initial and final - sh th ch wh	polished/finished	thief/chief	white/wheel							
	weather/feather									
1.4 Consonant digraphs – initial and final - sk qu ng nk tch nch	matches/witches	string/strong								
Blends										
1.5 Initial consonant blends	string/strong	cry/dry	fruit/blood							
	sleeping/sweeping		dress/cross							
1.3 Final consonant blends	hurt/turn	tall/ball	rock(et)/pack(et)							
Silent letters										
14 Recognition of the silent letters	light/right	walk/talk	knock/knife							
Phonic variations on consonants										
2 Hard and soft sound of 'c' (ace) (ice)	circle/circus									
3 Hard and soft sound of 'g'	message/village	fridge/bridge								
17 -ph- has the sound of f										
-s- sounds 'z'	voice/noise									

Spelling curriculum (grouped into large units)	Words ch	Words chosen for the two wordlists							
	s related to vowels								
Short vowel sounds	rocket/pocket	worried/married	message/village						
1.2 Short vowel sounds – a e i o u	horrible/terrible	polished/finished	picture/mixture						
	furious/curious	pononea minarea	proture, miniture						
Long vowel sounds		1/1							
Aiou (e) with final e mute  Silent e exceptions	alone/awake	cake/coke							
1.7 Long vowel sounds at the end of words									
4 long 'i' (igh)	light/right								
15 barn a (sounds 'ah')	8								
long o									
Vowel digraphs (sounding like long vowel sounds)	tie/pie	break/great							
1.8 vowel digraphs – ee ea ai ay oa oe ie ue ( <b>ey</b> ) ( <b>ei</b> )	sleeping/sweeping	thief/chief	tail/jail						
Vowel digraphs (new vowel sounds)									
1.10 two sounds of the irregular double vowel oo									
1.11 irregular double vowels au and aw									
1.12 irregular double vowel ow	yellow/follow								
1.13 dipthongs ou and ow	mountain/fountain	crown/clown							
1.14 dipthongs oi and oy	voice/noise								
1.15 dipthong ew									
R' modified vowels									
1.16 vowels modified by r - ar er ir or ur	garden/carpet	hurt/turn	letter/ladder						
18 vowel digraph –ai- modified by 'r'	fairy/hairy								
19 vowel digraph -ea- modfied by 'r'									
20 Combination of the fairy 'e' and the pest 'r'	fire/wire	picture/mixture							
(eer) (oar) (our) (ier)									
Some other vowels									
16 Words with -ea- pronounced 'e'	weather/feather								
1.9 Y used as a vowel	cry/dry	fairy/hairy	quickly/quietly						
(ough) (augh) (ould)									
Sui	ffixes								
Important suffixes									
1.17 Words containing the ending 'le'	horrible/terrible								
7 Suffix 'ed' (ed as ed)									
8 Suffix 'ed' (ed as d and ed as t)	polished/finished								
9 Suffixes -s and -es	witches/matches								
1.18 Suffix 'ing'	sleeping/sweeping								
11 Suffix –ing doubling the final consonant									
12 Suffix -ed doubling the final consonant									
13 Suffixes -ing and -ed dropping the final 'e'									
10 Changing y to i before adding suffix	worried/married								
Some other suffixes	operation/injection								
ous tion ture que –able –ible tain	picture/mixture	mountain/fountain	curious/furious						
	lar words								
Irregular words	one/eye								
	fruit/blood	push/pull	talk/walk						
5 Syllabification									
6 Compound words									
Contractions									
Prefixes									

Appendix G: Raw data - Pilot study

								Турі	ng	Only	,						٧	ord F	rec	lict	ion		]					
	# #	_		ڀ		ordlist O on A		ordlist on B	A/B	1/2	#	1/2	ş	A/B		ordlist on A		ordlist on B	Α⁄B	1/2			-	rdlist A WP Diff	-	rdlist B WP Diff		
	Subject number	School	Age	Gender	H	on A	10	On B	Diff	Diff 1/2	Time Diff A/B	rime Diff 1/2	Odd prs	or	100	on A	IVV	on B	Sc. Diff A/B	Diff 1/2	Time Diff A/B	Time	10-	WP DITT	10-	WP DIII		bject operate rediction?
	าน มา	σ		Ď	Sc	Time	Sc	Time	Sc. I	Sc.	ij	Time	ŏ	B/A	Sc	Time	Sc	Time	Sc.	Sc.		,,_	Sc	Time	Sc	Time		
	2.1	King's	08-03	Boy	9	22:12								Α														
	2.2	King's	07-09	Girl										В			13	20:29										Yes
de 2	2.3	King's	07-08	Girl	0																		0				No. Couldr	't spell or read
Grade	2.4	King's	08-03	Girl	0																		0				No. Couldr	't spell or read
	2.5	Private	08-02	Girl	5		5		0	0			8	A/B	11	15:20							+6					Yes
	2.6	Private	08-11	Girl	6		4		-2	-2			6	A/B			15	26:52							+11		Yes. Ve	ry thorough.
	3.1	King's	08:09	Girl	33	10:36	33	09:00	0	0	-01:36	-01:36	4	A/B														Yes
e 3	3.2	King's	08:03	Girl	36	13:41	36	13:17	0	0	-00:24	+00:24	4	B/A														Yes
Grade 3	3.3	King's	09:00	Boy	5	!8:22								Α													No. Could	n't read words
	3.4	King's	09:04	Boy	1	10:15	3	Oops!	+2	-2			2	B/A														Yes
	4.1	King's	09:11	Girl	10	11:41	9	9:49	-1	-1	-01:52	-01:52	3	A/B														Yes
le 4	4.2	King's	09:11	Boy	22	08:59	24	15:29	+2	-2	+06:30	-06:30	12	B/A														Yes
Grade 4	4.3	Private	10:02	Girl	33	08:58								Α	39	08:36							+6	-00:22				Yes
	4.4	Private	10:02	Girl	29	10:29	25	09:42	-4	-4	+00:47	+00:47	5	A/B	36	10:19	33	11:58	-3	-3	+01:39	+01:39	+7	-00:10	+8	+02:16	Yes.	Loved it.
	5.1	King's	10:00	Girl	39	10:31	39	11:19	0	0	+00:48	+00:48	0	A/B														Yes
2	5.2	King's	10:10	Boy	37	07:40	37	08:17	0	0	+00:37	-00:37	2	B/A														Yes
Grade	5.3	King's	11:07	Girl	30	14:20	32	11:50	+2	+2	-02:30	+02:30	7	A/B														Yes
ρ	5.4	King's	11:06	Boy	31	9:51	37	10:16	+6	-6	+00:25	-00:25	8	B/A														Yes
	5.5	Private	11:00	Girl	39		39		0	0			2	A/B	40	08:31	39	06:50	-1	-1	-01:41	-01:41	+1		0			Yes
									-5	-15	-03:45	-00:01																
k	Сеу	Sc	Sco	re		c. Diff A/B	So				tween sco			. Diff 1/2				e betwe			es on 1st s (2nd -	A/B or B/A		der of pre			Odd prs	Unmatched pairs
	and similarly for Time Diff A/B and Time Diff 1/2																											

## **Appendix H : Data tables - Pilot study**

Note: Only the data of the subjects who executed *both* wordlists in TO is displayed, so that a relationship between their performance on the two wordlists could be assessed.

## **Correctly spelled words**

Subjects		Accuracy scores														
Cubjecto	2.5	2.6	3.1	3.2	3.4	4.1	4.2	4.4	5.1	5.2	5.3	5.4	5.5	Total		
Score on Wordlist A (TO)	5	6	33	36	1	10	22	29	39	37	30	31	39	319		
Score on Wordlist B (TO)	5	4	33	36	3	9	24	25	39	37	32	37	39	324		
Score difference (B-A)	0	-2	0	0	+2	-1	+2	-4	0	0	+2	+6	0	-5		
Score on Wordlist presented 1 <sup>st</sup> (TO)	5	6	33	36	3	10	24	29	39	37	30	37	39	328		
Score on Wordlist presented 2 <sup>nd</sup> (TO)	5	4	33	36	1	9	22	25	39	37	32	31	39	313		
Score difference (2 <sup>nd</sup> - 1 <sup>st</sup> )	0	-2	0	0	-2	-1	-2	-4	0	0	-2	-6	0	-15		

### Time scores

Subjects			Total time								
Subjects	3.1	3.2	4.1	4.2	4.4	5.1	5.2	5.3	5.4	difference	
Time for Wordlist A (TO)	10:36	13:41	11:41	08:59	10:29	10:31	07:40	14:20	09:51		
Time for Wordlist B (TO)	9:00	13:17	9:49	15:29	09:42	11:19	08:17	11:50	10:16		
Time difference (B-A)	-01:36	-00:24	-01:52	06:30	00:47	00:48	00:37	-02:30	00:25	+2:15	
Time presented 1 <sup>st</sup> (TO)	10:36	13:17	11:41	15:29	10:29	10:31	08:17	14:20	10:16		
Time presented 2 <sup>nd</sup> (TO)	9:00	13:41	9:49	08:59	09:42	11:19	07:40	11:50	09:51		
Time difference (2 <sup>nd</sup> - 1 <sup>st</sup> )	-01:36	00:24	-01:52	-06:30	00:47	00:48	-00:37	-02:30	-00:25	-11:32	

Appendix I: Unmatched pairs - Pilot study

						N	Jun	nbe	er o	f ti	me	s a	w	ord	na	ir '	was	5 111	nm	atc	hed	
	Word p						1022				bje				Pu		.,					
	,,, u= u- <b>F</b>		2.1	2.2	2.3	2.4	2.5	2.6	3.1	3.2				4.2	4.3	4 4	5.1	5.2	5.3	5.4	5.5	Total
4	tall	ball	2.1	2.2	2.0	2	2.0	2.0	0.1	0.2	0.0	0		2			0.1	0.2	0.0		0.0	0
10	fire	wire																				0
15	cry	dry																				0
19	fairy	hairy																				0
20	horrible	terrible																				0
22	talk	walk																				0
39	mountain	fountain																				0
1	letter	ladder														1						1
6	yellow	follow														1						1
7	married	worried												1								1
9	garden	carpet												1								1
11	white	wheel												1								1
12	picture	mixture												1								1
16	rocket	packet											1									1
21	chief	thief								1												1
27	fruit	blood														1				1		1
28	tail	jail																				1
29	light	right							1													1
30	bridge	fridge																	1	1		1
31	hurt	turn																				1
8	push	pull						1								1						2
13	alone	awake					1							1						1		2
14	noise	voice																	1			2
18	crown	clown						1				1										2
25	furious	curious								1								1		1		2
26	witches	matches								1												2
34	polished	finished							1					1								2
35	sleeping	sweeping					1	1														2
37	weather	feather			<u> </u>									1					1			2
40	string	strong					1	1														2
5	cake	coke					1						1									2
2	dress	cross					1	1					1								1	3
3	quietly	quickly												1					1	1		3
17	tie	pie					1	1														3
24	eye	one					1					1							1			3
32	knock	knife					1		1					1						1		3
33	circle	circus							1							1				1	1	3
36	break	great												1						1		3
38	village	message												1					1			3
23	operation	injection								1				1				1	1			4
							8	6	4	4		2	3	12		5	0	2	7	8	2	63

Note: The ten words highlighted in grey were removed in the compilation of the final wordlists. Nine received the highest unmatched scores and the tenth was chosen from the next highest unmatched rating.

Appendix J: Record form - Pilot study

Name	Xxxxx					]	Number	4.2			
	Wordlist A						Wordlist B				
Comment	Spelling errors	Words	1/0		1/0	Words	Spelling errors	Comment			
	011010	letter	1	1	1	ladder	011010				
		dress	1	2	1	cross					
		quietly	1	3	0	quickly	quiqely				
		tall	1	4	1	ball	1 1 /				
		cake	1	5	1	coke					
		yellow	1	6	1	follow					
		married	1	7	0	worried	woried				
		push	1	8	1	pull					
		garden	1	9	0	carpet	carput				
		fire	1	10	1	wire					
		white	1	11	0	wheel	weal				
	pitcher	picture	0	12	1	mixture					
	aloan	alone	0	13	1	awake					
	nouse	noise	0	14	0	voice	vuese				
		cry	1	15	1	dry					
		rocket	1	16	1	packet					
		tie	1	17	1	pie					
	croun	crown	0	18	0	clown	cloud				
	farey	fairy	0	19	0	hairy	harey				
	horibell	horrible	0	20	0	terrible	terabell				
	chife	chief	0	21	0	thief	fieth				
		talk	1	22	1	walk					
	oparation	operation	0	23	1	injection					
		eye	1	24	1	one					
	furius	furious	0	25	0	curious	curius				
		witches	1	26	1	matches					
	frute	fruit	0	27	0	blood	blud				
	tale	tail	0	28	0	jail	jale				
	<u> </u>	light	1	29	1	right					
	brige	bridge	0	30	0	fridge	frige				
		hurt	1	31	1	turn					
	nock	knock	0	32	1	knife					
	circel	circle	0	33	0	circus	circes				
	pollisht	polished	0	34	1	finished					
		sleeping	1	35	1	sweeping					
	brake	break	0	36	1	great					
	wether	weather	0	37	1	feather					
		village	1	38	0	message	message				
	mountane	mountain	0	39	0	fountain	fountane				
Num	l ber of words spe	string	22	40	24	strong Number of w	ords spelled co	rrectly			
inum	nei oi woids she	med correctly	22	12	24	Livariner of w	rorus spelleu CO	песпу			
Time	8 59	Num	nber of		] tched r	naire [	15.0	29 Time			
NB conventio		_ INUII	IDEI UI	umma	ioniou p	ouis [	13.2	.5 111116			
General comments  Got tired and restless. Asked to use conventional keyboard for 2 <sup>nd</sup> list. Agreed, to investigate the difference in time usage between conventional and on-screen keyboard use.											

### Note:

- 1. The areas shaded in grey highlight the word pairs that scored differently on the two word lists. i.e. the unmatched pairs.
- 2. It is interesting to note that although the child had 12 unmatched pairs, his total scores on the two lists only differed by 2 points.

## Appendix K: Difficulty rating of words – Pilot study

Word	Frequency correctly spelled
curious	1
furious	3
witches	3
thief	4
circus	4
chief	5
operation	5
village	5
mountain	5
matches	5
fountain	5
horrible	6
break	6
weather	6
terrible	6
message	6
quietly	7
picture	7
noise	7
foir	7

Word	Frequency correctly spelled
bridge	7
hurt	7
knock	7
circle	7
polished	7
quickly	7
worried	7
voice	7
hairy	7
injection	7
blood	7
fridge	7
married	8
tie	8
fruit	8
tail	8
ladder	8
follow	8
pull	8
wheel	8

Wor	d	Frequency correctly spelled
mixtu	re	8
jail		8
grea	t	8
feath	er	8
lette	r	9
dres	s	9
yello	W	9
fire		9
whit	e	9
alon	e	9
coke	e	9
carpe	et_	9
wire		9
awak	e_	9
pack	et_	9
turn		9
finish	ed	9
stron	g_	9
push	1	10
garde	en	10

Word	Frequency correctly spelled
cry	10
rocket	10
crown	10
talk	10
eye	10
light	10
dry	10
clown	10
walk	10
right	10
knife	10
sweeping	10
cake	11
string	11
pie	11
tall	12
sleeping	12
cross	12
ball	12
one	13

Note: The words have been arranged in order of the number of times they were correctly spelled.

The shaded words are the words that were removed from the wordlists, being the most unmatched words.

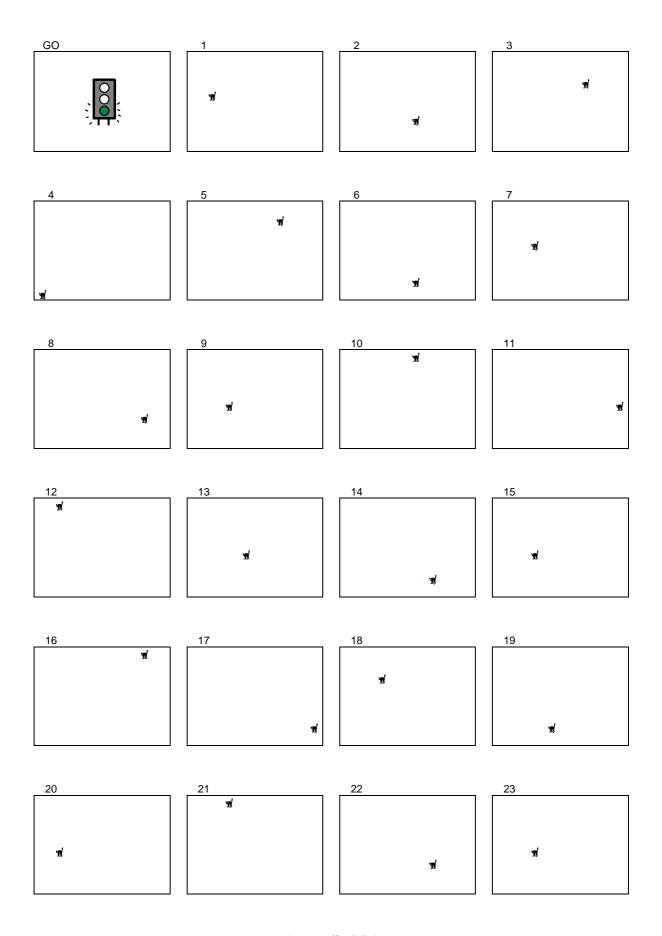
Appendix L: Problematic issues with the wordlists - Pilot study

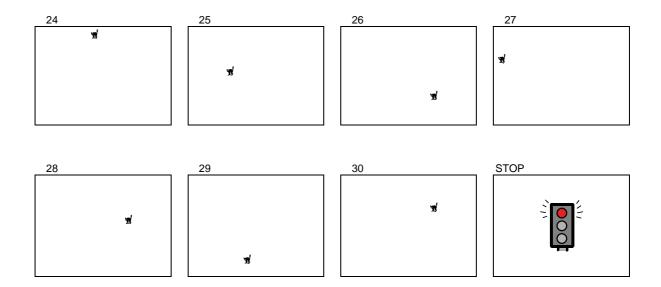
Minimum number of keystrokes required to spell word using WP (including selection of word in prediction list)	Word List A	Order of presentation	Word List B	Minimum number of keystrokes required to spell word using WP (including selection of word in prediction list)
4	letter	1	ladder	4
4	dress	2	cross	3
2	quietly	3	quickly	2
4	tall	4	ball	4
4	cake	5	coke	4
3	yellow	6	follow	4
4	married	7	worried	5
4	push	8	pull	3
3	garden	9	carpet	5
3	fire	10	wire	4
4	white	11	wheel	4
3	picture	12	mixture	4
4	alone	13	awake	3
4	noise	14	voice	2
3	cry	15	dry	3
6	rocket	16	packet	6
3	tie	17	pie	3
5	crown	18	clown	5
5	fairy	19	hairy	5
4	horrible	20	terrible	4
4	chief	21	thief	5
3	talk	22	walk	4
9	operation	23	injection	9
3	eye	24	one	2
4	furious	25	curious	3
7	witches	26	matches	7
4	fruit	27	blood	3
4	tail	28	jail	4
3	light	29	right	2
4	bridge	30	fridge	6
3	hurt	31	turn	3
2	knock	32	knife	3
3	circle	33	circus	6
3	polished	34	finished	3
3	sleeping	35	sweeping	8
3	break	36	great	4
4	weather	37	feather	7
2	village	38	message	4
4	mountain	39	fountain	8
5	string	40	strong	5
153				173

Word does not appear on prediction list as it is not in the word prediction lexicon.

Note how many more of the unpredicted words were assigned to Wordlist B, and how many of them were positioned in a cluster.

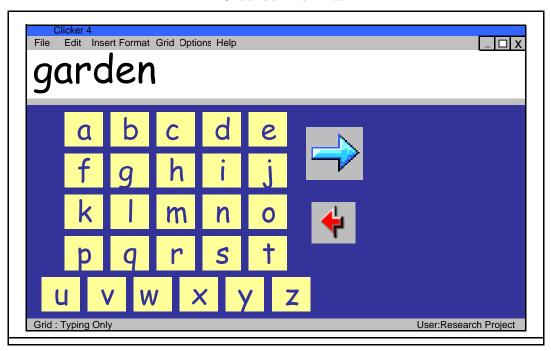
# Appendix M : Mouse control screening



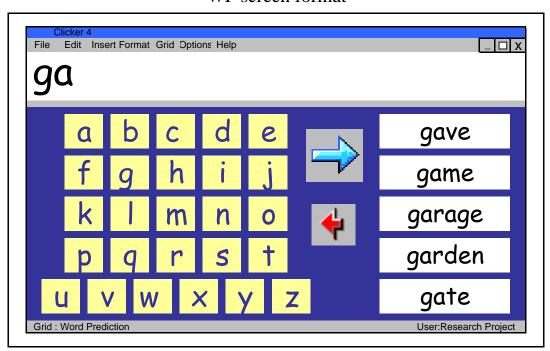


### Appendix N: Screen format for TO and WP subtests

TO screen format



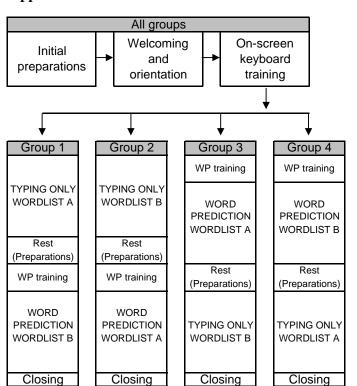
## WP screen format



Appendix O : Graded Word Spelling Test – List of words

No.	Word	No.	Word	No.	Word	No.	Word
1	is	2	am	3	see	4	up
5	do	6	red	7	bit	8	gun
9	down	10	milk	11	sick	12	story
13	grass	14	cold	15	letter	16	head
17	fire	18	paint	19	chair	20	earth
21	young	22	honey	23	pencil	24	thumb
25	office	26	always	27	reason	28	complete
29	shovel	30	crowded	31	royal	32	million
33	honest	34	straight	35	arrive	36	except
37	length	38	whose	39	region	40	suitable
41	require	42	autograph	43	gradual	44	guilty
45	beautiful	46	previous	47	pressure	48	knowledge
49	cooperate	50	frequently	51	foreign	52	cautious
53	mischief	54	initials	55	vehicle	56	scheme
57	ceremony	58	principles	59	achieve	60	efficient
61	authentic	62	seize	63	vicious	64	centenary
65	physique	66	catastrophe	67	crescent	68	villainy
69	spaghetti	70	aggressive	71	insatiable	72	colossal
73	eligible	74	occurred	75	menagerie	76	precocious
77	accommodate	78	erroneous	79	abscess	80	allegiance

Appendix P: Procedure and record sheet



			Number
	On-screen	keyboard training	
1	bus	A school bus.	
2	red	The colour red.	
3	hand	Put up your hand.	Sample Group
4	love	I love you.	
5	book	Read a book.	

		Word pred	diction training	Comments
	1	cat	A cat miaows.	
	2	stop	Stop doing that.	
	3	frog	A frog is green.	
D	4	television	Watch television.	
ni i	5	chocolate	Chocolate is delicious.	
Training	6	snake	A snake is dangerous.	
	7	jump	Jump over the wall.	
	8	flower	Smell the flower.	
	9	grandfather	My grandfather is old.	
	10	policemen	Policemen help us.	
e	11	get	Which one did you get?	
l o	12	black	The colour black.	
g	13	sing	Sing in a choir.	
Trying alone	14	pram	A baby rides in a pram.	
_	15	understand	Do you understand this?	
	16	yes	Yes, you can.	
est	17	top	Put it on top.	
WP test	18	man	A lady and a man.	
$\geq$	19	run	Walk, don't run!	
	20	look	Look at this!	

	TO/WP?	Wordlist A	Comment		
*** START TIMING ***					
1	tall	A tall man.			
2	fire	A veld fire.			
3	cry	Babies cry a lot.			
4	fairy	A fairy godmother.			
5	horrible	It tastes horrible.			
6	talk	Talk softly.			
7	mountain	Climb a mountain.			
8	letter	Write a letter.			
9	yellow	The colour yellow.			
10	married	A married woman.			
11	garden	A flower garden.			
12	white	The colour white.			
13	picture	Draw a picture			
14	rocket	A space rocket.			
15	chief	An Indian chief.			
16	fruit	Fruit juice.			
17	tail	The dog wags his tail.			
18	light	Switch the light on.			
19	bridge	Cross over on the bridge.			
20	hurt	I hurt my arm.			
21	push	Push the trolley.			
22	alone	He is all alone.			
23	noise	Don't make a noise.			
24	crown	A queen wears a crown.			
25	furious	Mom was furious.			
26	witches	Witches and wizards.			
27	polished	Polished shoes.			
28	sleeping	Sleeping Beauty.			
29	weather	Rainy weather.			
30	string	A ball of string.			
		*** STOP TIMING and SAVE **	*		

	TO/WP?	Wordlist B	Comment
		*** START TIMING ***	
1	ball	Throw the ball.	
2	wire	Electric wire.	
3	dry	Dry your hands.	
4	hairy	The hairy dog.	
5	terrible	A terrible thing happened.	
6	walk	Don't walk on the grass.	
7	fountain	A water fountain.	
8	ladder	Climb a ladder.	
9	follow	Follow the leader.	
10	worried	You look worried.	
11	carpet	Sit on the carpet.	
12	wheel	Turn the wheel.	
13	mixture	Cough mixture.	
14	packet	A packet of chips.	
15	thief	A thief steals.	
16	blood	Blood is red.	
17	jail	The robber is in jail.	
18	right	Right or wrong.	
19	fridge	A fridge is cold inside.	
20	turn	Turn the tap off.	
21	pull	Pull the suitcase.	
22	awake	Wide awake.	
23	voice	A lovely singing voice.	
24	clown	A circus clown.	
25	curious	The curious cat.	
26	matches	Don't play with matches.	
27	finished	This is nearly finished.	
28	sweeping	Sweeping the floor.	
29	feather	A bird's feather.	
20	strong	Strong muscles.	

	Name
,	

Researcher or Evaluator?

Date

Score		Time	
Wordlist A		Wordlist A	
	•		

Score	Time	
Wordlist A	Wordlist A	

### Appendix Q: Gauteng Education Department's letter of permission for the main study

GAUTENG EDUCATION DEPARTMENT To Whom It May Concern

# PERMISSION FOR RESEARCH PROJECT TO BE CONDUCTED AT FOREST TOWN SCHOOL

I request permission to conduct a research project amongst the Grade 3 to Grade 6 children of Forest Town School.

The research is in partial fulfillment of the requirements for the Masters in Augmentative and Alternative Communication Degree through the University of Pretoria. The purpose of the study is to investigate the usefulness of Word Prediction software to serve as writing support where there are spelling and writing difficulties. The project entails each learner executing two short computer tasks, with and without the aid of word prediction, and evaluating the relative effectiveness of the two approaches in terms of speed and quality of output. The results of The Graded Spelling Test, administered to all the Grade 3-Grade 6 classes, will be required for correlation purposes.

The study will require each child to leave the classroom for twenty to thirty minutes. Great care will be taken to minimize the impact of the study on academic school time. A research assistant will be employed (at the researcher's own expense) to help administer the tests, so as to minimize the impact on the therapist's working time.

The children's anonymity in the publication of the research results is assured. A summary of the research results will be available to any staff, parents or interested persons and a full copy of the completed research project will be given to Forest Town School (and the Department if requested). The outcome of the project is expected to have direct potential applicability in the remedial approach of the learners at Forest Town School.

The permission of the parents of each of the children involved in the study will be secured before testing commences (see attached letter). The principal of Forest Town School has been informed of the project and his permission obtained (see attached letter). All the relevant teachers have been informed and their positive support secured. Also attached is a copy of the research proposal (although there have been some changes to the research plan since its initial conception, the proposal gives a good indication of the purpose and nature of the project).

I would appreciate it if you would consider this application and sign below to acknowledge your permission.

Thank you	
Marina Herold Occupational Therapist at Forest Town School	Date
Gauteng Education	Date

### Appendix R: Headmaster's letter of permission for the main study

The Principal FOREST TOWN SCHOOL

Permission for research project to be conducted at Forest Town School

Dear Mr Jackson

I request permission to conduct a research project amongst the Grade 3 to Grade 6 children of Forest Town School.

The research is in partial fulfillment of the requirements for the Masters in Augmentative and Alternative Communication Degree through the University of Pretoria. The purpose of the study is to investigate the usefulness of Word Prediction software to serve as writing support where there are spelling and writing difficulties. The project entails each child executing two short computer tasks, with and without the aid of word prediction, and evaluating the relative effectiveness of the two approaches in terms of speed and quality of output. The results of The Graded Spelling Test, administered to all the Grade 3-Grade 6 classes, will be required for correlation purposes.

The study will require each child to leave the classroom for twenty to thirty minutes. Great care will be taken to minimise the impact of the study on academic school time. Also, the children's anonymity in the publication of the research results is assured. A research assistant will be employed (at the researcher's own expense) to help administer the tests, so as to minimise the impact on the therapist's working time.

A summary of the research results will be available to any staff, parents or interested persons and a full copy of the completed research project will be given to Forest Town School. The outcome of the project is expected to have direct potential applicability in the remedial approach of the learners at Forest Town School.

The permission of the parents of each of the children involved in the study will be secured before testing commences, as well as the permission of the Gauteng Department of Education. All the relevant teachers will be informed and their support secured.

I would appreciate it if you would consider this request favourably and sign below to acknowledge your permission.

Thank you	
Marina Herold	Date
Occupational Therapist at Forest Town School	
Mr L. Jackson	Date
Principal of Forest Town School	

## **Appendix S: Parent's letter of permission for the main study**

FOREST TOWN SCHOOL Occupational Therapy Department	
24 <sup>th</sup> February 2003	
Dear	
I am conducting a research project amongst the Grade 3 to Grade School. Permission is requested for your child	e 6 children of Forest Town to participate in the project.
The research is in partial fulfilment of the requirements for the Malternative Communication Degree through the University of Prostudy is to investigate the usefulness of Word Prediction softward where there are spelling and writing difficulties. The project entary short computer tasks, with and without the aid of word prediction effectiveness of the two approaches in terms of speed and quality	etoria. The purpose of the e to serve as writing support ails each child executing two n, and evaluating the relative
The study will require your child to leave the classroom for twen care will be taken to minimise the impact of the study on academ child's anonymity in the publication of the research results is asserted to anyone on request.	nic school time. Also, your
I would appreciate it if you would complete the section below, ar class teacher as soon as possible.	nd return it to your child's
Thank you	
Marina Herold Occupational Therapist at Forest Town School	
My child MAY / MAY NOT partion the usefulness of word prediction for writing support.	cipate in the research project
Signature of parent / guardian	Date

### **Appendix T: Instructions**

The following passages were not read verbatim, so that eye contact and a rapport could be established with the subject. The underlined words reflect the main aspects that were essential to communicate to the subject.

### **Instructions for the Mouse Control Screening**

Thank you for coming. What we are doing here is a little fun exercise to see if you can see small objects on the screen and move the mouse to those objects. You will be chasing a cat around the screen with your mouse. When I tell you to start, you must click on the green light. A little cat will appear on the screen. Click on it. That cat will appear again in another position. Click on it. Just carry on 'catching' the cat until the red light appears. Got it? It is very easy. Just go as fast as you can because I will be timing you. OK? 1,2,3 GO!

### 1. Welcoming and Orientation

Hello -----. Thank you so much for being part of this research project. I just want to explain to you what this is all about. I am doing a project to test a new way of spelling. I want to see if young children like you can learn to use a new method of spelling and if this new way helps a child to spell better and faster. By doing this exercise, you will really be helping me and I thank you very much. You must understand that this is not a test, and it will not go on your report. It doesn't matter if you can't spell all the words right so don't worry if you don't know how to spell them. I just want to see if there is any difference when you spell with the new method. There are going to be two parts to this exercise. You will spell 30 words with one method of typing. After a break, you will spell another 30 words with the other method. There is a juice and chocolate for you to enjoy while you are waiting. One more thing. I will be video taping the whole session. The video is so that someone can mark me, not you. They want to be sure that I do the exact same thing with every child, and that I do not cheat by helping some of the children. So, once we start, your must understand that I am not allowed to help you. OK? Any questions? Then we are ready to start.

# 2. On-screen keyboard training

Order	Verbal instructions to the child	Concept taught
Introduction	You will not be using the usual keyboard to type your words with, but this on-screen keyboard. Notice that the letters are in alphabetical order, starting with the 'a' and ending with a 'z'. As you click on the letters, they will appear here (point to the area on the screen where the letters will appear). Let's try a word.	Familiarising the child with the layout of the screen and the keyboard.
1	Type <b>bus.</b> A <b>school bus.</b> Bus. Good. Once you have finished typing in the word, you must enter it here ( <i>point to the enter icon</i> ). The word disappears off the screen and the computer will tell me that you are ready for the next word which I will then call out.	Familiarising the child with the concept of typing through an on-screen keyboard, the way a word appears in the word processor section of the screen as it is typed, and the way the word disappears on entering it.
2	Type red. The colour red. Red. Good. Now let's pretend you made a mistake and you want to fix it. You click on the delete icon (show the 'delete' icon) and one letter at a time will disappear. Delete 'red' and then type it in again to see how it works. You can change your word as much as you want to while you are spelling it, but once you have entered it, it is gone and too late to change. Understand? Well, that is all there is to it. Just to test you know how to work this keyboard, you can try 3 more words.	Familiarising the child with the function of the 'delete' icon.
3	Type <b>hand. Put up your hand. Hand</b> Very good. Always remember to enter your word as soon as you have finished typing it. Then I will know you are ready for the next one.	Practice using the on-screen keyboard as well as the procedure of the task – listening for the next word, typing it in and entering the word etc.
4	Type love. I love you. Love Yes.	
5	Type <b>book. Read a book. Book.</b> I think you have got it.	
Closing	Have you got any questions about how to use this keyboard?	Confirming that the child feels comfortable with the on-screen typing and the procedure of the task.

## 3. Word prediction training

Instructions are shown in italics.

..... indicate pauses where the researcher allows the child to type the word.

Pha	ise	Verbal instructions	Concept to learn
	oduc- on	I am now going to teach you another way to spell. It is called word prediction. You use screen keyboard as before, only this time there is a column of white cells over <i>here</i> ( <i>poin window</i> ). As you start typing your word the computer is going to try and guess, or prediction are planning to type. The computer will put its guesses here in these white boxes ( <i>point t</i> ) the computer guesses correctly, you can use the word if offers you instead of typing it yo it works	t to prediction ct, what word you to the five cells). If
	1	Type <b>cat.</b> A <b>cat miaows.</b> Cat. Notice that as you typed the letter 'c', a row of words starting with the letter 'c' appeared. Did the computer guess 'cat'? No, it did not. Type another letter. Can you see 'cat' yet? Yes. See what happens if you click on the word 'cat' The word goes up here ( <i>point to blank area where typed words go</i> ) and you don't have to finish it. Just enter to show you ready for the next word.	Introduction of basic idea
	2	Let's try another one. <b>Stop. Stop doing that! Stop.</b> Type a letter and look for the word 'stop'. If it is not there, type another letter. Is it there yet? Yes, it has come in now. Click on it and in it goes. Don't forget to enter your word once you are finished, even if the computer finishes the word for you.	
	3	Frog. A frog is green. Frog Do you think you are getting the idea?	
ac	4	Let's try a longer word. <b>Television. Watch television. Television.</b> The computer guessed 'television' on the third letter.	Long words and difficult words
Training	5	Here's another longish and more difficult word. Chocolate. Chocolate is delicious. Chocolate. I am sure you can see that this is a quick way to type in long words, and an easy way to spell more difficult words!	can be found easily
	6	Let's see what happens with this next word. <b>Snake.</b> A <b>snake is dangerous. Snake.</b> This time the word never appeared at all and all the white boxes became empty as you typed the end of the word. Sometimes the computer does not have the word you want in its memory, so it will never guess that word, or it can't think of more to guess. This is important to remember. If the word does not come, don't worry. Just keep typing and checking for the word until you have finished the word. Sometimes the word you are looking for comes in to the boxes after the first letter you typed, but not often. Sometimes you have to type a lot of letters before it comes in. And sometimes it never comes in at all. Most often the word comes after the 2 <sup>nd</sup> or 3 <sup>rd</sup> letter. But whatever happens, just keep on typing and checking. Don't stop because you think there is a problem.	Keep typing if the word doesn't appear. Don't stop!

Pha	ise	Verbal instruction	s	Concept to learn
	7	Let's try another word. <b>Jump. Jump over the wall</b> 'jump'. Look what has happened here. 'Jumped' ar 'jump'. You have to be careful of words like this. Y call. So what can you do? You can do two things. Y letter in 'jump' is 'u'. Now 'jump' has come in, and the first letter ( <i>delete up to the 'j'</i> ). You can do some word 'jumping' or 'jumped' and then change it. Clic space behind it, and take the 'ing' away.	nd 'jumping' has come in, but not ou must type the exact word I You can carry on typing. The next you can use it. Lets go back to ething else too. You can use the k on 'jumping', take away the	Taking care which form of the word to use, manipulating a word found in the prediction list to make it match the required form of
Training	8	Let's see what happens with this word. <b>Flower. Sm</b> will notice that 'flowers' comes in after the 3 <sup>rd</sup> letter, 'flowers'. Again, you can choose what you would pr 'flowers' and then remove the 's'. Or you can look a the spelling as you type out 'flower' yourself. Then yourself spelling.	but I asked for 'flower', not refer to do. You can either click in it how 'flowers' is spelt and copy you know that you have the	the target word, or, typing the target word out while copying the word from the prediction list for
	9	Here's another trick. Type <b>Grandfather. My grand</b> Notice how the word 'grand' has appeared. 'Gracan keep typing until 'grandfather' appears. Try it. I next letter. Or, (delete the word up till the 'g') you ca space, and add in 'father'. Notice how 'grandfather' was removed.	and' is part of 'grandfather'. You it came in when you typed the an use 'grand', take away the	correct spelling.
	10	Let's try one more. <b>Policemen. Policemen help us.</b> have the word 'policeman' appear. But I asked for 'p You can do two things again. Use it and change it copy the spelling of the word and type it out yourself		
		now going to see if you have got the idea. I am going takes any errors or misses opportunities to use the pred		But help the child if
Practice	11 12 13 14 15	Get. Which one did you get? Get.  Black. The colour black. Black.  Sing. Sing in a choir. Sing.  Pram. A baby rides in a pram. Pram.  Understand. Do you understand this? Understand.	Allow the child to try on his own. Using training principles below to guide interaction.	Semi-independent practice
	you	now going to call out five very easy words. But this t can use this spelling program without any help at all. cedure and Record Form).		
Test	16 17 18 19 20	Testing if Word Prediction as a typing strategy has been learned.		
Closing	You	Look. Look at this! Look.  have done very well. I think you know what to do! (I	the prediction list.  Move directly on to the WP Subtest,	

Appendix U : Master data chart

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Respondent Number	Tester reliability check	Present	Grade	Gender	Group	Chronological age (CA)	Graded Word Spelling Test score (GWST score)	Spelling age (SA)	Difference between chronological age and spelling age (CA-SA)	Typing Only score (TO score)	Typing Only time (TO time)	Word Prediction score (WP score)	Word Prediction time (WP time)	Difference between WP and TO scores (WP score - TO score)	Difference between WP and TO times (WP time - TO time)	Number of approximations used
1	1	1	4	Boy	4	10.50	23	8.67	1.83	13	9.55	20	14.03	7	4.43	2
2	'	1	4	Boy	3	11.17	14	7.25	3.92	3	7.57	5	8.27	2	0.67	4
5	1	1	4	Boy	1	11.33	11	6.83	4.50	6	9.87	12	10.05	6	0.15	6
6	'	1	4	Boy	3	10.50	17	7.67	2.83	3	7.75	16	10.78	13	2.98	2
7		1	4	Boy	2	10.00	21	8.33	1.67	6	8.72	18	9.42	12	0.72	2
8		1	4	Girl	3	12.50	12	7.00	5.50	5	7.20	10	10.08	5	2.88	2
10		1	4	Boy	2	10.50	16	7.58	2.92	5	12.50	8	12.75	3	0.25	2
11		1	4	Girl	3	11.92	9	6.58	5.34	0	9.35	5	14.30	5	4.90	8
12		1	4	Boy	2	10.17	13	7.08	3.09	5	11.60	7	17.13	2	5.53	4
13		1	4	Girl	1	10.83	24	8.83	2.00	20	8.23	25	10.22	5	2.02	1
16	1	1	4	Boy	1	10.92	5	6.08	4.84	1	15.98	3	18.53	2	2.53	10
17	•	1	4	Boy	4	11.00	9	6.58	4.42	1	7.87	6	9.62	5	1.72	8
18		1	4	Boy	2	12.00	7	6.33	5.67	0	12.05	2	9.98	2	-2.12	22
19	1	1	4	Boy	4	11.33	17	7.67	3.66	8	7.27	11	11.07	3	3.77	1
20	1	1	4	Girl	1	11.33	19	8.00	3.33	7	6.93	12	8.25	5	1.35	7
21	-	1	4	Boy	4	11.25	12	7.00	4.25	3	6.03	6	7.55	3	1.55	2
23		1	4	Boy	1	11.42	15	7.42	4.00	5	12.23	11	14.12	6	1.92	3
24		1	4	Girl	4	10.92	14	7.25	3.67	1	6.75	4	8.00	3	1.20	7
26		1	4	Boy	2	10.83	24	8.83	2.00	10	10.28	22	11.17	12	0.87	1
27	1	1	4	Boy	2	10.42	11	6.83	3.59	4	10.88	10	15.57	6	4.67	5
28	1	1	4	Girl	1	11.67	12	7.00	4.67	5	11.53	10	12.57	5	1.07	5
29	-	1	4	Boy	3	10.25	22	8.50	1.75	11	10.88	20	10.75	9	-0.15	0
30		1	5	Boy	1	11.25	28	9.50	1.75	19	11.27	26	12.58	7	1.28	1
31		1	5	Boy	1	10.83	17	7.67	3.16	12	7.38	12	8.95	0	1.55	5
32		1	5	Boy	4	11.92	9	6.67	5.25	2	10.75	5	12.85	3	2.05	6
33	1	1	5	Boy	4	12.25	27	9.33	2.92	17	7.95	20	8.33	3	0.33	4
34		1	5	Girl	3	12.00	21	8.33	3.67	14	8.10	21	8.35	7	0.25	0
35		1	5	Girl	2	12.33	28	9.50	2.83	20	9.73	25	7.93	5	-1.77	1
37	1	1	5	Boy	1	12.00	23	8.67	3.33	15	8.52	12	10.73	-3	2.23	5
38		1	5	Girl	4	12.00	29	9.67	2.33	22	8.68	24	8.52	2	-0.18	1
39		1	5	Boy	4	12.67	24	8.83	3.84	15	8.37	18	11.87	3	3.47	5
40	1	1	5	Girl	2	11.50	25	9.00	2.50	10	8.90	23	9.55	13	0.65	3
41	1	1	5	Boy	3	10.58	19	8.00	2.58	6	10.60	19	14.05	13	3.45	2
42		1	5	Boy	3	11.83	28	9.67	2.16	14	9.63	20	10.28	6	0.68	0
43		1	5	Boy	4	12.00	19	8.00	4.00	14	10.12	6	11.03	-8	0.93	2
44		1	5	Girl	3	11.83	26	9.17	2.66	15	9.68	26	10.75	11	1.05	2
45	1	1	5	Boy	1	10.67	24	8.83	1.84	12	8.15	20	8.57	8	0.37	0
46		1	5	Boy	2	12.50	32	10.25	2.25	23	8.07	26	8.17	3	0.07	0
47	1	1	5	Boy	3	10.92	15	7.42	3.50	5	8.85	5	10.83	0	1.93	4
48		1	5	Boy	1	11.83	19	8.00	3.83	12	7.67	18	10.15	6	2.45	0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Respondent Number	Tester reliability check	Present	Grade	Gender	Group	Chronological age (CA)	Graded Word Spelling Test score (GWST score)	Spelling age (SA)	Difference between chronological age and spelling age (CA-SA)	Typing Only score (TO score)	Typing Only time (TO time)	Word Prediction score (WP score)	Word Prediction time (WP time)	Difference between WP and TO scores (WP score - TO score)	Difference between WP and TO times (WP time - TO time)	Number of approximations used
49		1	5	Boy	2	12.25	19	8.00	4.25	7	13.23	16	13.75	9	0.55	0
51	1	1	5	Boy	3	11.50	23	8.67	2.83	13	7.08	18	7.45	5	0.35	0
52		1	5	Boy	1	13.33	30	9.83	3.50	25	8.17	25	9.23	0	1.03	0
53		1	5	Girl	1	12.00	10	6.67	5.33	2	7.40	11	11.60	9	4.20	5
54		1	5	Girl	3	12.92	8	6.42	6.50	0	6.75	4	10.08	4	3.28	12
55		1	5	Boy	2	12.25	18	7.83	4.42	3	7.70	19	11.23	16	3.53	4
56		1	5	Boy	2	11.92	13	7.08	4.84	3	8.27	14	11.53	11	3.23	2
57		1	5	Girl	4	12.50	21	8.33	4.17	10	8.27	14	9.25	4	0.95	4
58		1	5	Boy	1	12.33	21	8.33	4.00	13	9.02	17	11.03	4	2.03	3
59		1	5	Boy	4	11.83	14	7.25 9.00	4.58	4	7.93	10 22	11.73	6 7	3.83 -0.40	6
62 64	1	1	6 6	Boy	1 3	12.42 13.42	25 31	9.00	3.42 4.34	15 21	7.12 9.88	26	6.70 10.45	5	0.55	2
67	'	1	6	Boy	1	13.42	13	7.08	6.00	3	7.77	12	10.45	9	2.45	3
68		1	6	Boy Girl	2	13.08	26	9.17	3.91	16	8.48	23	8.38	7	-0.12	0
69		1	6	Girl	1	12.00	30	9.83	2.17	22	6.48	28	7.12	6	0.62	1
70		1	6	Girl	2	12.42	28	9.50	2.92	17	6.47	23	7.10	6	0.60	0
71		1	6	Boy	1	11.58	17	7.67	3.91	15	8.95	24	10.92	9	1.92	0
72		1	6	Boy	2	11.58	20	8.17	3.41	10	8.77	22	9.97	12	1.17	0
73		1	6	Girl	3	12.83	28	9.50	3.33	21	7.42	23	8.73	2	1.33	0
74		1	6	Boy	4	13.42	15	7.42	6.00	9	11.03	8	14.33	-1	3.33	11
76		1	6	Girl	2	12.67	30	9.83	2.84	19	8.08	27	9.37	8	1.27	0
78		1	6	Boy	4	13.33	27	9.33	4.00	22	8.38	20	7.80	-2	-0.60	7
79		1	6	Boy	3	12.00	21	8.33	3.67	13	7.97	23	10.45	10	2.45	0
80		1	6	Boy	1	12.83	19	8.00	4.83	7	7.43	15	9.15	8	1.75	1
81		1	6	Boy	3	12.67	26	9.17	3.50	14	6.20	20	6.93	6	0.73	0
83		1	6	Boy	3	13.08	18	7.83	5.25	9	7.08	15	7.90	6	0.80	3
85		1	6	Boy	2	12.58	17	7.67	4.91	13	14.20	19	16.03	6	1.83	2
86		1	6	Girl	2	12.67	24	8.83	3.84	10	9.90	21	10.13	11	0.23	1
87	1	1	6	Boy	4	14.17	21	8.33	5.84	14	6.73	16	8.22	2	1.52	4
88		1	6	Boy	2	12.25	13	7.08	5.17	5	14.42	12	14.45	7	0.05	2
89		1	6	Boy	4	13.42	31	10.08	3.34	24	8.52	26	10.20	2	1.70	0
90	1	1	6	Girl	3	13.08	24	8.83	4.25	13	10.93	19	15.83	6	4.93	2
91	1	1	6	Girl	3	13.50	6	6.17	7.33	0	8.15	4	10.42	4	2.22	1
92		1	6	Girl	1	13.83	41	11.83	2.00	23	9.12	28	10.40	5	1.30	0
93	1	1	6	Girl	1	12.25	21	8.33	3.92	13	8.45	18	9.92	5	1.42	2
94		1	6	Boy	4	12.08	24	8.83	3.25	22	8.43	18	10.30	-4 -	1.90	0
96	1	1	6	Boy	4	11.83	18	7.83	4.00	12	6.58	17	9.70	5	3.10	3
97		1	6	Boy	4	13.42	11	6.83	6.59	3	8.35	9	10.02	6 11	1.62 3.33	4
98 99		1	6 6	Boy Boy	3 1	12.83 13.42	13 27	7.08 9.33	5.75 4.09	3 21	10.30 8.40	14 19	13.63 9.70	-2	3.33 1.30	1 2
33	20	80	J	БОУ	'	12.00	19.78	8.18	3.83	10.73	8.97	16.10	10.61	5.38	1.64	2.94

## Appendix V : Summary of assessor's findings

nt Der	All units of		ime sco	res accu	urately re	ecorded	?				
nder	the procedure executed,	Asse	essor	Resea	archer	Diffe	rence	Irregularities in	Other assessor's	Researcher's	
Respondent unique number	and in the correct order?	то	WP	то	WP	то	WP	research protocol?	comments	comments	
1	Yes	09:33	14:02	09:33	14:02	0	0	Procedure carried out over 2 days.	Video a bit jumpy sometimes.	Unexpected long test times and unpredicted school events sometimes resulted in the 2nd subtest having to be postponed to the following day.	
5	Yes	09:53	10:03	09:52	10:03	-1	0	None	None	None	
16	Yes	16:00	?	15:59	18:32	-1	?	None	Video cut off on word 14 of 2nd subtest.	Testing time exceeded capacity of video cassette.	
19	Yes	07:15	11:07	07:16	11:04	1	-3	None	None	None	
20	Yes	06:55	08:17	06:56	08:15	1	-2	Faulty calling of 3rd word on Wordlist B (WP)	None	Researcher corrected self immediately after calling the wrong word.	
27	Yes	10:53	?	10:53	15:34	0	?	None	Video cut off on word 27 of 2nd subtest.	Testing time exceeded capacity of video cassette.	
28	Yes	11:33	12:34	11:32	12:34	-1	0	Very chatty to this subject and lots of praise given.	Sound quality poor for first part of word prediction training.	Subject appeared insecure. Generalised encouragement was given. Subject also required frequent reminders to 'enter' after completion of word.	
33	Yes	08:00	08:19	07:54	08:20	-6	1	Interruption on word 21 of Wordlist A (TO) - subject sneezed and needed tissue.	None	Timing paused and 3 secs subtracted from time to compensate for time delay while the researcher reacted to the situation. The assessed -6 secs difference therefore becomes a -3 secs difference.	

t er	All units of		ime sco	res accı	urately re	ecorded	?			
nden	the procedure executed,	Asse	essor	Resea	archer	Diffe	rence	Irregularities in	Other assessor's	Researcher's
Respondent unique number	and in the correct order?	то	WP	ТО	WP	ТО	WP	research protocol?	comments	comments
37	Researcher error. Procedure for Group 1 was followed instead of Group 2.	08:31	10:44	08:31	10:44	0	0	Interruption on word 13 of Wordlist A (TO)	None	No compensation could be instituted for this procedural error. The data would be retained but recorded for Group 1. The interruption was someone attempting to come into the locked test room. The researcher just encouraged the subject to continue, which he appeared able to do.
40	Yes	08:55	09:33	08:54	09:33	-1	0	False start on Wordlist A (WP)		First word was called from incorrect list. Error noted immediately, test discontinued and restarted.
41	Yes	10:36	14:03	10:36	14:03	0	0	Procedure carried out over 2 days.	Researcher looked at wrist watch. A wall clock in the room may have been useful.	Unexpected long test times and unpredicted school events sometimes resulted in the 2nd subtest having to be postponed to the following day.
45	Yes	08:08	08:37	08:07	08:34	-1	-3	Very chatty to this child.	None	The child was chatty!
47	Researcher error. Procedure for Group 3 was followed instead of Group 4.	08:51	11:30	08:51	10:50	0	-40	None	Video very jumpy during the closing.	The procedural error was noted by the researcher during testing and compensated for by exchanging this subject's group for the group of the subject next on the list. The video was very stretched and distorted, explaining the extreme time differences betwen the researcher's and the assessor's times on the WP subtest.
51	Changed word order of words 18 and 19 in Wordlist A (WP)	07:05	07:27	07:05	07:27	0	0	None	None	No compensation for wrong order of words called.

nt Der	All units of	Т	ime sco	res accı	urately re	ecorded	?				
nder	the procedure executed,	Asse	essor	Resea	archer	Diffe	rence	Irregularities in	Other assessor's	Researcher's comments	
Respondent unique number	and in the correct order?	то	WP	то	WP	ТО	WP	research protocol?	comments		
64	Yes	09:55	10:26	09:53	10:27	-2	1	None	Researcher looked at wrist watch. A wall clock in the room may have been useful.	Good suggestion. However, the subject did not appear to be aware of the researcher looking at her watch, which was slowly and quietly done.	
87	Yes	06:43	08:13	06:49	08:13	6	0	None	None	Researcher corrected self immediately after calling the wrong word.	
90	Yes	10:57	15:50	10:56	15:50	-1	0	None	None	None	
91	Yes	08:10	10:25	08:09	10:25	-1	0	Premature calling of word 28 of Wordlist B (TO)	None	No compensation. Prematurity of calling was slight.	
93	Yes	08:27	09:56	08:27	09:55	0	-1	None	None	None	
96	Changed word order of words 12 and 13 in Wordlist A (TO)	06:36	09:41	06:35	09:42	-1	1	Closing thank-you not on video.	Lots of background noise heard on video. Sound patchy during word prediction training.	No compensation for wrong order of words called. Subject appeared to be able to continue through background distractions.	

# Appendix W : Approximate words chosen

	Wordlist A	No of approx	Approximate words	Wordlist B	No of approx	Approximate words
1	tall	3	toe, tell, torch	ball	0	
2	fire	3	five, furious, fair	wire	1	were
3	cry	1	kindly	dry	2	drew, true
4	fairy	5	furious, fair, really, fairly (2)	hairy	4	here (2), her, hear
5	horrible	1	had	terrible	2	table, trouble
6	talk	2	took, take	walk	8	work (5), well, wake, woke
7	mountain	4	mostly, moving, monster, moment	fountain	3	furniture (3)
8	letter	8	let, little (4), later (2), light	ladder	10	later, lady (5), lad, leader, leading, landed
9	yellow	0		follow	4	folded (2), flow, fold
10	married	1	moving	worried	4	would, warned (3)
11	garden	1	gathering	carpet	2	captain, crept
12	white	2	with, write	wheel	14	well (7), we'll, while, will (5)
13	picture	3	piece, present, peach	mixture	8	mixed (2), measure (3), mixer, measure, mention
14	rocket	2	right, rock	packet	18	packed (16), pack, past
15	chief	0		thief	4	feather, their (3)
16	fruit	2	furious, front	blood	0	
17	tail	4	tall (2), till, taste	jail	0	
18	light	0		right	6	rather, write (5)
19	bridge	4	bright, before, brought, drive	fridge	2	feeling, feather
20	hurt	5	hate (2), heat, hand, heard	turn	3	ten (3)
21	push	1	place	pull	8	pool (7), pulled
22	alone	7	along (7), under	awake	5	work, wake (3), away+ke
23	noise	7	nose (4), noticed, narrow, notice	voice	2	those, view-s
24	crown	3	crawl, could, clown	clown	0	
25	furious	2	furniture, fridge	curious	4	karl, course, car, creatures
26	witches	9	which (4), witch (2), with, wished, watch +es	matches	14	much, machine, master, machines (8), match, measure (2)
27	polished	3	polish, bones, place	finished	6	finish (6)
28	sleeping	2	stand, singing	sweeping	0	
29	weather	4	walk, were (2), whether	feather	2	father (2)
30	string	7	stand, straight (3), street, sting, strange	strong	3	strange, stone, straight
	Total	96		Total	139	