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Imagery,cognition and memory: The influence of mental imagery on improving reading, writing, and spelling abilities of grade 4 children with learning disabilities

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2006-02-09
http://hdl.handle.net/10539/168

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Appendix A

Written permission from the School

Appendix B

Information Letter

Dear Parent

The remedial programme currently taking place at your child's school is one that involves various approaches to therapy aiming to access the use of new theories pertaining to the effective implementation of remedial teaching techniques. In particular this research will involve assessing a programme designed to increase your child's learning skills, with the areas of focus being on reading, writing and spelling as opposed to the current standard approach of focusing primarily on identifying different sounds.

I therefore wish to invite your child to take part in the programme. If you give permission for your child to participate, the programme will run for approximately six months, during which time your child will receive one-on-one tutoring from a course-trained tutor, for one hour twice a week at a fee of R30 per hour, to cover the tutor's basic costs and transport.

A pre-evaluation of your child's cognitive and academic abilities will be initially obtained for the purpose of establishing a base from which later analysis will take place. These scores will be compared with the scores obtained at the end of the programme thus allowing us to evaluate the extent to which your child's performance has improved. The study will in no way impact on his/her current academic commitments and will in no way cause harm. The programme is aimed at enhancing reading, writing and spelling which make up the core components of academic learning, and whilst we anticipate that your child will benefit by acquiring learning skills, it should however be noted that the effectiveness of the programme may vary from individual to individual.

Your child's participation is completely voluntary and you are under no obligation to continue with the programme should you feel it is not worthwhile or for any other reason choose to withdraw. This research will be run independently of your child's schooling institution and will in no way negatively reflect on him/her if you choose not to make your child available.

Should you require access to the data obtained during and after this research project, a comprehensive summary of results will be made available at your convenience. If you have any enquiries pertaining to the project please do not hesitate to contact me on the details provided below.

Regards,
Lyndall Booth

Tel:
Cell:

Email: mwbooth@mweb.co.za

Appendix C

Parental Consent Form

Appendix D

Parental Questionnaire

PARENT QUESTIONNAIRE

Background Information

1.1 Age in years and months at time of first session _____

1.2 Grade/Standard _____

Physical History

2.1 Any unusual pregnancy or birth conditions (e.g. difficult pregnancy; pre-natal illnesses; birth injuries; prolonged labour; Caesarean; instruments)

_____
_____

2.2 Early childhood illnesses, accidents or operations

_____
_____

2.3 Development

Age at walking _____

Age when used first words _____

Age when chained words into short sentences (e.g. daddy car; mommy come; me go)

_____

Outstanding traits as a young child (e.g. slow or early development)

_____
_____

General health as a young child (e.g. colds; fevers; childhood illnesses; high temperatures; falls; overweight or underweight)

_____
_____

School History

3.1 Parents comments on school(s) attended

School(s) attended In grade Progress and success

_____
_____
_____

3.2 Any long absences from school

Duration In grade Reasons (e.g. medical)

_____
_____
_____

3.3 Comments on child's progress and teaching received at school

_____
_____
_____

3.4 Child's relationship with previous teacher

_____

3.5 Child's relationship with current teacher

_____

3.6 Areas of school programme in which child has difficulty

_____
_____
_____

3.7 Areas of school programme in which child does well

_____
_____
_____

3.8 Child's special abilities (in school as well as extramurally)

_____
_____
_____

Scholastic Difficulties

4.1 Nature of scholastic difficulties

_____
_____

4.2 When difficulties began

_____

4.3 How were these difficulties spotted

_____

4.4 Previous assessments relating to difficulties

_____
_____

4.5 Additional teaching, therapy or remedial work done previously with the child

_____
_____
_____

4.6 Present difficulties

_____
_____

4.7 Is present school giving any special help?

_____

4.8 Of what nature?

_____
_____

4.9 Parent's perception of the cause of the difficulty

_____
_____

Child's Attitudes and Interests

5.1 Does your child have many friends at school or just a few? Any best friends?

_____

5.2 Child's attitude towards school

_____
_____

5.3 Involvement in sport and extra-mural activities at school

_____
_____

5.4 Hobbies and interests outside of school

_____
_____

5.5 Child's special abilities and interests

_____
_____

Family Relationships and Family History

6.1 Are there other children in the family? _____

Name Age

_____
_____
_____

6.2 Relations with other children in the family

_____
_____

6.3 Parent's relations with the child

_____
_____

6.4 Marital status of parents

_____

6.5 Any unusual events during child's early years?

_____
_____
_____

Appendix E

Teacher Questionnaire

Teacher Questionnaire: Today's date :

1. To your knowledge, what has this learner's progress in school been like to date ?

2. Which areas of the school programme does this learner do well in ?

3. Which areas of the school programme does this learner find difficult ?

4. Have you noticed any differences or changes in this learner's **spelling** abilities since the commencement of the tutoring programme? If so, what ? Please give specific examples to illustrate your answer, if possible.

5. Have you noticed any differences or changes in this learner's **reading** abilities since the commencement of this tutoring programme? If so, what ? Please give specific examples to illustrate your answer, if possible.

6. Have you noticed any differences or changes in this learner's **writing** abilities since the commencement of this tutoring programme? If so, what ? Please give specific examples to illustrate your answer, if possible.

Appendix F

Holborn Reading Scale

Appendix G

The Schonell Tests –

- The Schonell One Word Spelling Test
- The Schonell Word Reading Scale
- The Schonell Graded Dictation tests (forms B, C, and D)

Appendix H

The Phonic Inventories

Appendix I

The Regular and Irregular Reading test and the Words and Non-words reading test

Appendix J

Galton’s ‘Breakfast-table’ questionnaire

Appendix K

Imagery Questionnaire

Appendix L

The Rey Complex Figure

Appendix M

Child A

Child A – Rey Complex Figure (Raw Scores)

	Pre-test	Post test
Copy	31	30
Immediate	22.5	25
Delayed	21	25

Child A - Kaufman Assessment Battery for Children

Sub-Scales	**Pre**	**Post**
Hand Movements	Raw Score 12 Age 8-3	Raw Score 14 Age 11-9
Number Recall	Raw Score 9 Age 8-9	Raw Score 12 Age >12-6
Word Order	Raw Score 16 Age >12-6	Raw Score 17 Age >12-6
Spatial Memory	Raw Score 16 Age 11-9	Raw Score 17 Age >12-6

Child A – Scholastic Test Results

	Pre-test	Post test
Holborn Reading	8.03yrs	8.11yrs
Schonell Spelling	7.09yrs	7.08yrs
Schonell Reading	8.11yrs	8.03yrs
Schonell Graded Dictation Form B	11 errors +ve score 14 Age approx. >7yrs	6 errors +ve score 20 Age approx. 8yrs

Schonell Graded Dictation Form C	19 errors +ve score 11 Age approx. >7yrs	17 errors +ve score 13 Age approx. >7yrs
Schonell Graded Dictation Form D	26 errors +ve score / (not able to score)	22 errors +ve score 16 Age approx. 7yrs

CHILD A - Phonic Inventories - Pre-tests

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	3	sc/; cl/; ch/.
Medial Vowels	1	/e/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	16	/ss x2; /tch x3; /ll x2; /ff; /ck x3; /nk; /dge; /mps; /ngth x2.
Long and Short Vowel Confusion	2	short/a/-long/a/; long/i/-short/i/.
Consonant/Sound Confusion	4	/tch-/ch x2; c-k; /dge-/g.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors	1	off – up.

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants	4	b/ x3; h/.
Initial Blends	1	sch/.
Medial Vowels	14	/i/ x4; /a/ x4; /e/ x2; /u/ x2; /o/ x2.
Medial Vowel Digraphs	13	/oa/; /ee/ x2; /ie/; /ou/ x3; /ea/ x4; /oi/; /ai/.
Ending Consonants	1	/w.
Ending Blends/Consonants	13	/ke; /le x3; /ble; /ce; /lm; /lk; /wl; /ll; /gh; /re x2.
Long and Short Vowel	7	long/e/-short/e/ x2; long/i/-short/i/;

Confusion		long/u/-short/u/; long/ea/-short/a/; long/ai/-short/e/; long/a/-short/i/.
Consonant/Sound Confusion	1	lk-rk.
Reversals/Transposals	4	b-d x4.
Errors with Prefix		
Errors with Suffix		
Syllabification Errors	1	third-thrd
Other Errors	4	pain-pane; toe-tow; roar-raw; flower-pretty.

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants	1	b/.
Initial Blends	1	str/.
Medial Vowels	6	/i/ x2; /o/ x4.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	13	/ng x4; /pe; /tch x4; /ck x3; /ve.
Long and Short Vowel Confusion	10	long/i/-short/i/; short/o/-long/o/ x8; long/o/-short/o/.
Consonant/Sound Confusion	7	/tch-/ch x4; /ck-/k; /tion-/shin x2.
Reversals/Transposals	6	ng-gn x5; b-d.
Errors with Prefix	2	re/ x2.
Errors with Suffix	21	/ger; /gest; /ping; /per; /ped; /ly x2; /er; /est x2; /ing x2; /ful x2; /ness; /able; /tion x3; /ity; /ary.
Syllabification Errors	3	big/suffix-3syll; hap/pi/suffix-2syll; quick/suffix-1syll.
Other Errors		

Child A – Post test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	4	th/; ch/ x2; st/.
Medial Vowels	2	/e/; /o/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	10	/tch x3; /ll x2; /ff; /nk; /dge; /ngth x2.
Long and Short Vowel Confusion		
Consonant/Sound Confusion	2	tch-ch x2.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants	3	d/ x2; h/.
Initial Blends		
Medial Vowels	12	/u/ x3; /a/ x4; /e/ x2; /i/ x3.
Medial Vowel Digraphs	14	/ai/ x2; /oa/ x2; /oe/; /ie/; /ou/ x2; /ea/ x3; /oi/ x2; /ee/.
Ending Consonants	1	/w.
Ending Blends/Consonants	14	/le x2; /ble; /ke; /ce; /lm; /wn; /lk; /rd; /ll; /gh; /re x3.
Long and Short Vowel	1	long/i/-short/i/.

Confusion		
Consonant/Sound Confusion		
Reversals/Transposals	2	b-d x2.
Errors with Prefix		
Errors with Suffix		
Syllabification Errors	1	our-2syll.
Other Errors		

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels	1	/u/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	20	/pe; /ppy x3; /tch x4; /ck x4; /rk x4; /ct x4.
Long and Short Vowel Confusion	5	short/i/-long/i/ x2; short/o/-long/o/ x2; long/o/-short/o/.
Consonant/Sound Confusion	4	tch-ch x4.
Reversals/Transposals		
Errors with Prefix	5	re/ x5.
Errors with Suffix	18	/ger; /gest; /per; /ped; /ly x3; /ful; /ness; /er; /est; /et; /able; /ion x3; /ive; /ary.
Syllabification Errors	3	quick+suffix-1syll x3.
Other Errors		

Appendix N

Child B

Child B – Rey Complex Figure (Raw Scores)

	Pre-test	Post test
Copy	36	22
Immediate	22.5	23.5
Delayed	24	24.5

Child B - Kaufman Assessment Battery for Children

Sub-Scales	**Pre**	**Post**
Hand Movements	Raw Score 14 Age 11-9	Raw Score 12 Age 8-3
Number Recall	Raw Score 10 Age 8-3	Raw Score 11 Age 10-9
Word Order	Raw Score 16 Age >12-6	Raw Score 18 Age >12-6
Spatial Memory	Raw Score 17 Age >12-6	Raw Score 20 Age >12-6

Child B – Scholastic Test Results

	Pre-test	Post test
Holborn Reading	8.00yrs	9.07yrs
Schonell Spelling	7.09yrs	8.02yrs
Schonell Reading	8.02yrs	8.05yrs
Schonell Graded Dictation Form B	9 errors +ve score 16 Age approx. 7yrs	11 errors +ve score 14 Age approx. >7yrs

Schonell Graded Dictation Form C	17 errors +ve score 13 Age approx. >7yrs	17 errors +ve score 13 Age approx. >7yrs
Schonell Graded Dictation Form D	20 errors +ve score 17 Age approx. 7yrs	18 errors +ve score 18 Age approx. 7yrs

CHILD B – Phonic Inventories - Pre-test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	1	sc/.
Medial Vowels	1	/a/.
Medial Vowel Digraphs	1	/ui/.
Ending Consonants		
Ending Blends/Consonants	6	/tch x3; /dge; /ngth x2.
Long and Short Vowel Confusion		
Consonant/Sound Confusion	1	c-k.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels	9	/u/; /a/ x5; /e/; /u/ x2.
Medial Vowel Digraphs	13	/oe/; /ee/ x2; /ea/ x2; /ie/; /ou/ x3; /oi/; /oo/; /oa/; /ai/.
Ending Consonants	3	/r x3.
Ending Blends/Consonants	11	/le x3; /ble; /se; /lm; /lk; /wl; /ll; /ough; /rn.
Long and Short Vowel Confusion	2	short/a/-long/a/ x2.
Consonant/Sound		

Confusion		
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors	1	turn-2syll.
Other Errors	4	pain-pane; toe-tow; roar-raw; here-hear.

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels	2	/o/; /u/.
Medial Vowel Digraphs	5	/ui/ x5.
Ending Consonants		
Ending Blends/Consonants	11	/ng; /pe; /tch x4; /ct x5.
Long and Short Vowel Confusion	3	long/o/-short/o/ x3.
Consonant/Sound Confusion	4	tch-ch x4.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix	14	/ed x2; /ly x2; /ing; /ful; /ily; /ness; /able; /tion x3; /ity; /ary.
Syllabification Errors	5	chop/suffix-1syll; hap/pi/suffix-2syll x2; post/suffix-1syll; re/mark/ab/le-3syll.
Other Errors		

Child B - Post test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	1	sc/.
Medial Vowels		
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	4	/tch x2; /ll; /dge.
Long and Short Vowel Confusion		
Consonant/Sound Confusion	2	tch-ch x2.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels	7	/o/; /u/ x2; /a/ x2; /e/ x2.
Medial Vowel Digraphs	11	/ai/ x2; /oe/; /ou/ x3; /ea/ x3; /oi/; /ee/.
Ending Consonants	2	/r x2.
Ending Blends/Consonants	10	/ble; /ce; /ght; /le; /wd; /rm; /ll; /gh; /re x2.
Long and Short Vowel Confusion		

Consonant/Sound Confusion		
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels	1	/u/.
Medial Vowel Digraphs	3	/ui/ x3.
Ending Consonants	2	/y x2.
Ending Blends/Consonants	13	/ng x2; /pe; /ck x2; /rk; /ct x7.
Long and Short Vowel Confusion	2	short/i/-long/i/; long/o/-shorth/o/.
Consonant/Sound Confusion		
Reversals/Transposals		
Errors with Prefix	1	re/
Errors with Suffix	11	/gest; /ped; /ing; /ily; /iness; /est; /able; /ion x3; /ary.
Syllabification Errors	5	chop-2syll; hap/pi/suffix-2syll x2; su/per-1syll; re/mark-1syll.
Other Errors		

Appendix O

Child C

Child C – Rey Complex Figure (Raw Scores)

	Pre-test	Post test
Copy	22.5	29
Immediate	18	20.5
Delayed	16.5	19

Child C - Kaufman Assessment Battery for Children

Sub-Scales	**Pre**	**Post**
Hand Movements	Raw Score 9 Age 6-0	Raw Score 14 Age 11-9
Number Recall	Raw Score 10 Age 8-3	Raw Score 11 Age 10-9
Word Order	Raw Score 13 Age 9-0	Raw Score 16 Age >12-6
Spatial Memory	Raw Score 14 Age 9-3	Raw Score 16 Age 11-9

Child C – Scholastic Test Results

	Pre-test	Post test
Holborn Reading	8.03yrs	9.05yrs
Schonell Spelling	7.08yrs	8.02yrs
Schonell Reading	8.01yrs	7.10yrs
Schonell Graded Dictation Form B	15 errors +ve score 10 Age approx. >7yrs	10 errors +ve score 15 Age approx. 7yrs

Schonell Graded Dictation Form C	27 errors +ve score / (not able to score)	23 errors +ve score 7 Age approx. >7yrs
Schonell Graded Dictation Form D	27 errors +ve score / (not able to score)	25 errors +ve score / (not able to score)

CHILD C

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants	2	b/; g/.
Initial Blends	4	ch/; sk/; wh/; sh/.
Medial Vowels	4	/a/ x3; /u/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	18	/ss x2; /tch x3; /ll x3; /ff; /sh; /nk x3; /dge; /sk; /ng; /ngth x2.
Long and Short Vowel Confusion		
Consonant/Sound Confusion	3	sk-sc x2; tch-ch.
Reversals/Transposals	1	b-d.
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	2	sk/; str/.
Medial Vowels	10	/u/ x3; /a/ x3; /i/ x3; /o/.
Medial Vowel Digraphs	12	/ai/ x2; /ee/ x2; /ou/ x2; /ea/ x3; /oi/; /oo/; /oa/.
Ending Consonants	1	/r.
Ending Blends/Consonants	12	/ble; /ce; /gth; /le; /lm; /wn; /lk; /wl; /ll; /gh; /re x2.
Long and Short Vowel Confusion	6	long/ai/-short/a/; long/i/-short/i/; long/ou/-short/o/; long/oi/-short/o/;

		long/e/-short/e/.
Consonant/Sound Confusion	1	sk-sc.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels	4	/u/ x3; /i/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	17	/ng x2; /py; /tch x4; /rk x3; /ct x6; /ve.
Long and Short Vowel Confusion	1	short/i/-long/i/.
Consonant/Sound Confusion	5	tch-ch x4; k-c.
Reversals/Transposals		
Errors with Prefix	1	re/.
Errors with Suffix	16	/ger; /gest; /ping; /per; /ped; /ly x2; /ful x2; /pily; /piness; /able; /ion x3; /ary.
Syllabification Errors	4	big/suffix-1syll; re/mark-3syll; act-2syll.
Other Errors		

Child C – Post test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants	1	b/.
Initial Blends	4	ch/ x3; str/.
Medial Vowels	2	/i/; /e/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	9	/ss; /ll; /nk x2; /sks; /tch; /ng; /nght x2.
Long and Short Vowel Confusion		
Consonant/Sound Confusion		
Reversals/Transposals	1	b-d.
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants	1	b/.
Initial Blends		
Medial Vowels	6	/u/ x3; /o/; /i/; /a/.
Medial Vowel Digraphs	9	/ai/ x2; /ie/; /ou/; /oi/; /ea/ x2; /oa/; /ee/.
Ending Consonants	1	/r.
Ending Blends/Consonants	12	/le x2; /ble; /ce; /wd; /lm; /wn; /lk; /wl; /gh; /re x2.
Long and Short Vowel		

Confusion		
Consonant/Sound Confusion		
Reversals/Transposals	1	b-d.
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels	4	/a/ x3; /u/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	14	/ng x2; /pe; /tch; /rk x5; /ct x5.
Long and Short Vowel Confusion	2	short/o/-long/o/; long/o/-short/o/.
Consonant/Sound Confusion	1	tch-ch
Reversals/Transposals		
Errors with Prefix	2	re/ x2.
Errors with Suffix	14	/ing; /ped; /ful x2; /iness; .ily; /ly; /et; /able; /ive; /ity; /ion x2; /ary.
Syllabification Errors	6	mark/et-1syll; re/mark-3syll; re/mark/ab/le-3syll; re/act-3syll; re/act/ion-1syll; re/act/ion/ary-2syll.
Other Errors		

Appendix P

Child D

Child D – Rey Complex Figure (Raw Scores)

	Pre-test	Post test
Copy	31	32
Immediate	22.5	28
Delayed	21	25

Child D - Kaufman Assessment Battery for Children

Sub-Scales	**Pre**	**Post**
Hand Movements	Raw Score 15 Age >12-6	Raw Score 16 Age >12-6
Number Recall	Raw Score 13 Age >12-6	Raw Score 14 Age >12-6
Word Order	Raw Score 16 Age >12-6	Raw Score 17 Age >12-6
Spatial Memory	Raw Score 19 Age >12-6	Raw Score 20 Age >12-6

Child D – Scholastic Test Results

	Pre-test	Post test
Holborn Reading	8.06yrs	9.10yrs
Schonell Spelling	7.11yrs	9.03yrs
Schonell Reading	8.08yrs	10.01yrs
Schonell Graded Dictation Form B	5 errors +ve score 21 Age approx. 8yrs	3 errors +ve score 23 Age approx. 8yrs

Schonell Graded Dictation Form C	15 errors +ve score 15 Age approx. 7yrs	9 errors +ve score 21 Age approx. 8yrs
Schonell Graded Dictation Form D	22 errors +ve score 16 Age approx. 7yrs	14 errors +ve score 21 Age approx. 8yrs

CHILD D – Phonic Inventories – Pre-test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	2	sk/; wh/.
Medial Vowels		
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	14	/tch x3; /ll x3; /ff; /ss; /nk; /dge; /ft; /sks; /ngth x2.
Long and Short Vowel Confusion		
Consonant/Sound Confusion		
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	1	str/.
Medial Vowels	7	/u/ x3; /a/ x2; /e/ x2.
Medial Vowel Digraphs	5	/ou/ x3; /ee/; /ai/.
Ending Consonants	1	/r.
Ending Blends/Consonants	11	/le x2; /se; /ce; /lm; /wn; /wl; /ll; /gh; /re. x2
Long and Short Vowel Confusion	1	short/a/-long/ai/
Consonant/Sound		

Confusion		
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants	5	q/ x5.
Initial Blends		
Medial Vowels	1	/i/.
Medial Vowel Digraphs	4	/ui/ x4.
Ending Consonants		
Ending Blends/Consonants	10	/pe; /st; /tch x4; /rk x4.
Long and Short Vowel Confusion	6	short/i/-long/i/ x2; short/o/-long/o/ x3; long/o/-short/o/.
Consonant/Sound Confusion	4	tch-ch x4.
Reversals/Transposals		
Errors with Prefix	1	re/.
Errors with Suffix	13	/ger; /gest; /ping; /per; /ped; /ly; /ful x2; /ed; /able; /tion x2; /ive.
Syllabification Errors	1	hap/pi/suffix-2syll.
Other Errors		

Child D – Post test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	1	gl/.
Medial Vowels	1	/e/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	5	/ll x2; /tch; /ngth x2.
Long and Short Vowel Confusion		
Consonant/Sound Confusion	1	tch-ch.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels		
Medial Vowel Digraphs	1	/ee/.
Ending Consonants	1	/r.
Ending Blends/Consonants		
Long and Short Vowel Confusion		
Consonant/Sound Confusion		

Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels		
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	1	/pe.
Long and Short Vowel Confusion	1	long/o/-short/o/.
Consonant/Sound Confusion		
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix	5	/ily; /iness; /ivity; /ion; /ary.
Syllabification Errors	3	hap/pi/suffix-2syll x2; act/iv/i/ty-3syll.
Other Errors		

Appendix Q

Child E

Child E – Rey Complex Figure (Raw Scores)

	Pre-test	Post test
Copy	30	30
Immediate	11	20
Delayed	11	23

Child E - Kaufman Assessment Battery for Children

Sub-Scales	**Pre**	**Post**
Hand Movements	Raw Score 13 Age 9-6	Raw Score 15 Age >12-6
Number Recall	Raw Score 12 Age >12-6	Raw Score 12 Age >12-6
Word Order	Raw Score 16 Age >12-6	Raw Score 14 Age 10-9
Spatial Memory	Raw Score 17 Age >12-6	Raw Score 14 Age 9-3

Child E – Scholastic Test Results

	Pre-test	Post test
Holborn Reading	8.08yrs	9.02yrs
Schonell Spelling	7.03yrs	7.02yrs
Schonell Reading	8.08yrs	9.02yrs
Schonell Graded Dictation Form B	20 errors +ve score 5 Age approx. >7yrs	9 errors +ve score 16 Age approx. 7yrs

Schonell Graded Dictation Form C	33 errors +ve score / (not able to score)	21 errors +ve score 9 Age approx. >7yrs
Schonell Graded Dictation Form D	32 errors +ve score / (not able to score)	24 errors +ve score 14 Age approx. >7yrs

CHILD E

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	2	wh/; sw/.
Medial Vowels	1	/a/.
Medial Vowel Digraphs	1	/ui/.
Ending Consonants		
Ending Blends/Consonants	15	/ss x2; /ff; /ck x3; /ll x3; /ng x2; /nd; /dge; /ngth x2.
Long and Short Vowel Confusion		
Consonant/Sound Confusion		
Reversals/Transposals	1	d-b.
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	2	sk/; th/.
Medial Vowels	16	/i/ x5; /u/ x3; /a/ x5; /e/ x2; /o/.
Medial Vowel Digraphs	13	/oe/; /ee/ x2; /ou/ x3; /oi/; /ea/ x3; /oo/; /oa/; /ai/.
Ending Consonants	4	/d x3; /r.
Ending Blends/Consonants	19	/le x2; /ble; /ke; /se; /ce; /ght; /wd; /lm; /rm; /lk; /rd x2; /ll; /gh; /th; /re x3.
Long and Short Vowel		

Confusion		
Consonant/Sound Confusion		
Reversals/Transposals	5	d-b x5.
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels	3	/i/ x2; /u/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	8	/py; /rk x5; /ct x2.
Long and Short Vowel Confusion	6	short/i/-long/i/ x2; short/o/-long/o/ x3; long/o/-short/o/
Consonant/Sound Confusion		
Reversals/Transposals		
Errors with Prefix	1	re/.
Errors with Suffix	19	/gest; /ger; /ping; /ped; /ly x3; /ed x2; /ing; /ness; /able; /ion x3; /ive; /ivity; /ary.
Syllabification Errors	3	strong/suffix-1syll; act/iv/suffix-2syll; re/act/ion/ary-3syll.
Other Errors		

Child E – Post test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	1	sk/.
Medial Vowels	1	/e/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	9	/ll x2; /ff; /ck; /nk x2; /sks; /ngth x2.
Long and Short Vowel Confusion	1	short/u/-long/u/.
Consonant/Sound Confusion		
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels	11	/u/ x3; /a/ x4; /i/ x2; /o/; /e/.
Medial Vowel Digraphs	10	/ai/ x2; /ou/ x3; /oi/; /oo/; /oa/; /ea/; /ee/.
Ending Consonants	2	/y; /r.
Ending Blends/Consonants	12	/ble; /se; /ce; /le; /wd; /lm; /wn; /ll; /gh; /re x3.

Long and Short Vowel Confusion	2	long/i/-short/i/; short/a/-long/a/.
Consonant/Sound Confusion		
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors	2	loud-2syll; crowd-2syll.
Other Errors		

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels	3	/i/ x2; /u/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	7	/rk x5; /ct x2.
Long and Short Vowel Confusion	6	short/i/-long/i/ x2; short/o/-long/o/ x3; long/o/-short/o/.
Consonant/Sound Confusion		
Reversals/Transposals		
Errors with Prefix	1	re/.
Errors with Suffix	19	/ger; /gest; /ping; /per; /ped; /ly; /ed x2; /ing; /ly x2; /ness; /able; /ion x3; /ive; /ivity; /ary.
Syllabification Errors	3	strong/ly-1syll; act/iv/i/ty-2syll; re/act/ion/ary-3syll.
Other Errors		

Appendix R

Child F

Child F – Rey Complex Figure (Raw Scores)

	Pre-test	Post test
Copy	15	12
Immediate	2.5	3
Delayed	5	6.5

Child F - Kaufman Assessment Battery for Children

Sub-Scales	**Pre**	**Post**
Hand Movements	Raw Score 11 Age 7-6	Raw Score 15 Age >12-6
Number Recall	Raw Score 10 Age 8-3	Raw Score 11 Age 10-6
Word Order	Raw Score 18 Age >12-6	Raw Score 15 Age >12-6
Spatial Memory	Raw Score 15 Age 10-3	Raw Score 14 Age 9-3

Child F – Scholastic Test Results

	Pre-test	Post test
Holborn Reading	9.05yrs	9.02yrs
Schonell Spelling	7.10yrs	8.06yrs
Schonell Reading	9.06yrs	9.06yrs
Schonell Graded Dictation Form B	1 error +ve score 26 Age approx. 10yrs	0 errors +ve score 27 Age approx. 10yrs

Schonell Graded Dictation Form C	10 errors +ve score 20 Age approx. 8yrs	6 errors +ve score 24 Age approx. 9yrs
Schonell Graded Dictation Form D	16 errors +ve score 19 Age approx. 8yrs	8 errors +ve score 25 Age approx. 9yrs

CHILD F – Phonic Inventories – Pre-test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	1	sk/.
Medial Vowels	1	/a/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	9	/ll; /ff; /nk; /dge; /sks; /tch x2; /ngth x2.
Long and Short Vowel Confusion		
Consonant/Sound Confusion	1	tch-ch.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants	1	h/.
Initial Blends		
Medial Vowels	5	/a/ x2; /e/ x2; /o/.
Medial Vowel Digraphs	5	/ou/ x2; /ea/; /oa/; /ee/.
Ending Consonants	1	/r.
Ending Blends/Consonants	5	/re x2; /lm; /ll; /gh.
Long and Short Vowel Confusion	1	short/a/-long/a/.
Consonant/Sound Confusion		

Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels	1	/i/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	7	/pe; /tch x3; /ct x3.
Long and Short Vowel Confusion	3	long/o/-short/o/ x3.
Consonant/Sound Confusion		
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix	11	/ed; /ly x3; /ed; /ness; /er; /able; /ive; /ity; /ion; /ary.
Syllabification Errors	4	hap/pi/suffix-2syll x2; act/iv/i/ty-3syll; re/act/ion/ary-3syll.
Other Errors		

Child F – Post test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	1	gl/.
Medial Vowels	1	/e/.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	7	/ll x2; /dge; /tch x2; /ngth x2.
Long and Short Vowel Confusion		
Consonant/Sound Confusion	2	tch-ch x2.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels		
Medial Vowel Digraphs	3	/ou/; /oa/; /ee/.
Ending Consonants	1	/r.
Ending Blends/Consonants	3	/lm; /ll; /gh.
Long and Short Vowel Confusion		
Consonant/Sound Confusion		

Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels		
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	4	/pe; /tch x3.
Long and Short Vowel Confusion	1	long/o/-short/o/.
Consonant/Sound Confusion	3	tch-ch x3.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix	5	/ily; /iness; /ivity; /ion; /ary.
Syllabification Errors	3	hap/pi/suffix-2syll x2; act/iv/i/ty-3syll.
Other Errors		

Appendix S

Child G

Child G – Rey Complex Figure (Raw Scores)

	Pre-test	Post test
Copy	24	23
Immediate	13	14.5
Delayed	16	12

Child G - Kaufman Assessment Battery for Children

Sub-Scales	**Pre**	**Post**
Hand Movements	Raw Score 6 Age 4-6	Raw Score 7 Age 5-0
Number Recall	Raw Score 10 Age 8-3	Raw Score 16 Age >12-6
Word Order	Raw Score 17 Age >12-6	Raw Score 11 Age 7-3
Spatial Memory	Raw Score 17 Age >12-6	Raw Score 13 Age 8-3

Child G – Scholastic Test Results

	Pre-test	Post test
Holborn Reading	8.03yrs	8.11yrs
Schonell Spelling	7.04yrs	6.05yrs
Schonell Reading	7.10yrs	8.03yrs
Schonell Graded Dictation Form B	24 errors +ve score 1 Age approx. >7yrs	16 errors +ve score 9 Age approx. >7yrs

Schonell Graded Dictation Form C	25 errors +ve score / (not able to score)	26 errors +ve score / (not able to score)
Schonell Graded Dictation Form D	31 errors +ve score / (not able to score)	34 errors +ve score / (not able to score)

CHILD G – Phonic Inventories – Pre-test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	2	sk/; sc/.
Medial Vowels	9	/i/ x4; /e/ x2; /a/ x2; /o/.
Medial Vowel Digraphs	1	/ui/.
Ending Consonants		
Ending Blends/Consonants	17	/ss x2; /tch x3; /ll x3; /ff; /ck x3; /nk x2; /dge; /ngth x2.
Long and Short Vowel Confusion	2	short/i/-long/i/; short/o/-long/o/.
Consonant/Sound Confusion	7	ck-k; ck-c; sc-sk x2; dge-g; tch-ch x2.
Reversals/Transposals	1	ck-kc.
Errors with Prefix		
Errors with Suffix		
Syllabification Errors	2	swift-swft; chimp-chmp.
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants	6	p/ x2; n/; r/; c/; d/.
Initial Blends	3	sk/; fl/; sp/.
Medial Vowels	15	/u/ x3; /o/ x4; /a/ x4; /e/; /i/ x3.
Medial Vowel Digraphs	16	/ai/ x2; /oa/; /oe/; /ee/ x2; /ea/ x4; /ie/; /ou/; /oi/ x2; /ou/; /oa/.
Ending Consonants	2	/y; /w.
Ending Blends/Consonants	18	/le x2; /ble; /se; /ce; /ght; /rd x2; /lm; /wn; /lk; /wl; /ll; /gh; /rt; /re x3.
Long and Short Vowel	6	long/ai/-short/a/; long/ee/-short/e/;

Confusion		short/i/-long/ee/; long/e/-short/e/; long/ai/-short/e/.
Consonant/Sound Confusion	2	c-k; lm-rm.
Reversals/Transposals	3	p-q x2; d-b.
Errors with Prefix		
Errors with Suffix		
Syllabification Errors	3	earth-2syll; beer-2syll; flow/er-1syll.
Other Errors	3	sea-see; our-unjerne; flower-sfluw.

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants	1	b/.
Initial Blends		
Medial Vowels	7	/o/ x4; /i/ x2; /u/.
Medial Vowel Digraphs	5	/ui/ x5.
Ending Consonants	1	/y.
Ending Blends/Consonants	15	/pe; /ppy x3; /tch x4; /ck x5; /er; /rk.
Long and Short Vowel Confusion	5	short/i/-long/i/ x2; short/o/-long/o/ x2; long/o/-short/o/.
Consonant/Sound Confusion	3	ck-k; tion-shin x2.
Reversals/Transposals	1	b-d.
Errors with Prefix		
Errors with Suffix	31	/ger; /gest; /ping; /per; /ped; /ly x3; /er x4; /est x2; /ing; /ary; /ed x3; /ful x2; /ness; /et x2; /able; /tion x3; /tive x2; /ty.
Syllabification Errors	9	chop/suffix-1syll; strong/suffix-

		1syll; hap/pi/suffix-2syll; match/suffix-1syll; quick/suffix-1syll; act/suffix-1syll x2; re/act/ion/suffix-2syll x2.
Other Errors		

Child G – Post test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants	1	t/.
Initial Blends	2	sk/; scr/
Medial Vowels	4	/u/ x2; /i/; /o/.
Medial Vowel Digraphs	1	/ui/.
Ending Consonants		
Ending Blends/Consonants	19	/ss x2; /tch x3; /ll x4; /ff; /ck x3; /nk x2; /dge; /mps; /ngth x2.
Long and Short Vowel Confusion		
Consonant/Sound Confusion	5	tch-ch x3; ck-k x2.
Reversals/Transposals	1	p-q
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants	4	d/; n/; c/; h/.
Initial Blends	1	sch/.
Medial Vowels	16	/u/ x3; /o/ x4; /a/ x5; /e/ x2; /i/ x2.
Medial Vowel Digraphs	20	/ea/ x6; /ai/ x2; /oa/ x2; /oe/; /ee/ x2; /ie/; /ou/ x3; /oi/ x2; /oo/.
Ending Consonants	3	/y; /r x2.
Ending Blends/Consonants	18	/le x2; /ble; /ke; /ce; /ght; /lm; /wn; /lk; /wl; /ll; /gh; /rn; /rth; /re x4.

Long and Short Vowel Confusion	3	long/i/-short/i/ x3.
Consonant/Sound Confusion		
Reversals/Transposals	1	d-b.
Errors with Prefix		
Errors with Suffix		
Syllabification Errors	6	oil-2syll; bowl-2syll; door-2syll; roar-2syll; beer-2syll; flow/er-1syll.
Other Errors	1	third-3rd

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	1	pl/.
Medial Vowels	4	/o/ x4.
Medial Vowel Digraphs	5	/ui/ x5.
Ending Consonants	1	/y.
Ending Blends/Consonants	18	/pe; /ppy; /tch x4; /ck x5; /rk x4; /ct x3.
Long and Short Vowel Confusion	3	short/o/-long/o/; long/o/-short/o/ x2.
Consonant/Sound Confusion	9	tch-ch x4; ck-k x5.
Reversals/Transposals		
Errors with Prefix	1	re/.
Errors with Suffix	31	/ger; /gest; /ping; /per; /ped; /ly x2; /er x5; /est x2; /ing; /ed x3; /ful x2; /pily; /piness; /et x2; /able; /ion x3; /ive; /ity; /ary.

Syllabification Errors	9	big/gest-1syll; chop/ped-1syll; strong/est-1syll; play/ed-1syll; hap/pi/ly-2syll; post/man-3syll; match/ed-1syll; sup/er/mark/et-3syll; re/mark/ab/le-3syll.
Other Errors		

Appendix T

Child H

Child H – Rey Complex Figure (Raw Scores)

	Pre-test	Post test
Copy	10	20.5
Immediate	12	11
Delayed	9.5	12.5

Child H - Kaufman Assessment Battery for Children

Sub-Scales	**Pre**	**Post**
Hand Movements	Raw Score 7 Age 5-0	Raw Score 12 Age 8-3
Number Recall	Raw Score 8 Age 5-9	Raw Score 14 Age >12-6
Word Order	Raw Score 16 Age >12-6	Raw Score 13 Age 9-0
Spatial Memory	Raw Score 12 Age 7-9	Raw Score 14 Age 9-3

Child H – Scholastic Test Results

	Pre-test	Post test
Holborn Reading	8.06yrs	9.02yrs
Schonell Spelling	7.07yrs	8.03yrs
Schonell Reading	8.03yrs	8.01yrs
Schonell Graded Dictation Form B	18 errors +ve score 7 Age approx. >7yrs	11 errors +ve score 14 Age approx. >7yrs

Schonell Graded Dictation Form C	22 errors +ve score 8 Age approx. >7yrs	20 errors +ve score 10 Age approx. >7yrs
Schonell Graded Dictation Form D	28 errors +ve score / (not able to score)	25 errors +ve score / (not able to score)

CHILD H – Phonic Inventories – Pre-test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	4	sk/; sm/; ch/; str/.
Medial Vowels	4	/u/; /e/; /a/ x2.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	13	/tch x3; /ck x3; /nt; /ng; /ll; /ss; /dge; /ngth x2.
Long and Short Vowel Confusion	2	short/a/-long/a/; short/i/-long/i/.
Consonant/Sound Confusion	6	sk-sc; ck-k; dge-g; tch-ch x3.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors	1	yes-ys.
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	2	str/ x2.
Medial Vowels	12	/u/ x3; /o/ x3; /a/ x3; /i/ x2; /e/.
Medial Vowel Digraphs	9	/ai/ x2; /oo/ x2; /oi/; /ea/ x3; /oa/.
Ending Consonants	4	/r x4.
Ending Blends/Consonants	13	/le; /wd; /rd; /lm; /rm; /wn; /lk; /rd; /wl; /gh; /rn; /rth; /re.
Long and Short Vowel Confusion	2	long/ai/-short/a/; long/a/-short/e/.
Consonant/Sound	1	lm-rm.

Confusion		
Reversals/Transposals	3	ar-ra; ur-ru; oor-roo.
Errors with Prefix		
Errors with Suffix		
Syllabification Errors	2	earth-2syll; flow/er-1syll.
Other Errors	2	pain-pane; roar-raw.

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants	5	q/ x5.
Initial Blends	9	ch/ x4; pl/ x5.
Medial Vowels	10	/o/ x10.
Medial Vowel Digraphs	4	/ui/ x4.
Ending Consonants	1	/x.
Ending Blends/Consonants	22	/ng x4; /tch x4; /ck x5; /rk x3; /ct x6.
Long and Short Vowel Confusion	2	long/o/-short/o/ x2.
Consonant/Sound Confusion	3	tch-ch x3.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix	22	/est x3; /er x6; /ed x2; /ing x2; /ily; /iness; /et; /able; /tion x3; /ivity; /ary.
Syllabification Errors	9	big/suffix-1syll; chop/suffix-1syll; strong/suffix-1syll; hap/pi/suffix-2syll x2; match/suffix-1syll; quick/suffix-1syll x2; su/per/mark/et-2syll.
Other Errors		

Child H – Post test

Level One

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends	2	ch/; str/.
Medial Vowels	4	/u/; /e/; /a/ x2.
Medial Vowel Digraphs		
Ending Consonants		
Ending Blends/Consonants	11	/tch x3; /ck; /nt; /ng; /ll; /ss; /dge; /ngth x2.
Long and Short Vowel Confusion		
Consonant/Sound Confusion	4	ck-k; tch x3.
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix		
Syllabification Errors		
Other Errors		

Level Two

Type of Error	**Frequency**	**Details**
Initial Consonants	2	d/; b/.
Initial Blends	1	st/.
Medial Vowels	8	/u/ x3; /a/ x3; /i/; /o/.
Medial Vowel Digraphs	7	/oa/ x2; /ea/ x2; /oo/; /oa/; /ou/.
Ending Consonants	2	/r x2.
Ending Blends/Consonants	16	/le x2; /ble; /wd; /lm; /rm; /wn; /rn x2; /ll; /gh; /rt; /rth; /rd x2; /re.
Long and Short Vowel		

Confusion		
Consonant/Sound Confusion		
Reversals/Transposals	3	storm-strom; dirt-drit; bird-brid.
Errors with Prefix		
Errors with Suffix		
Syllabification Errors	2	tab/le-1syll; earth-2syll.
Other Errors	3	Correct letters-wrong sequence.

Level Three

Type of Error	**Frequency**	**Details**
Initial Consonants		
Initial Blends		
Medial Vowels		
Medial Vowel Digraphs	4	/ui/ x4.
Ending Consonants		
Ending Blends/Consonants	15	/tch x4; /ck x5; /ct x6.
Long and Short Vowel Confusion	4	short/i/-long/i/; short/o/-long/o/; long/o/-short/o/ x2.
Consonant/Sound Confusion	9	tch-ch x4; /ck x5
Reversals/Transposals		
Errors with Prefix		
Errors with Suffix	20	/est x3; /er x6; ed x2; /ing; /ily; /iness; /able; /ion x3; /ivity; /ary.
Syllabification Errors	5	big/gest-1syll; chop/ped-1syll; hap/pi/suffix-2syll x2; re/act/ion/ary-3syll.
Other Errors		

Appendix U

Ethical Clearance Certificate