



MASSEY UNIVERSITY
SUMMER PROJECT 2011-2012

PARTICIPANTS

- 10 schools – 7 low decile and 3 high decile
- Approximately 600 Year 3 students
- Randomly assigned to one of four groups:
 1. *Books only = 25 books*
 2. *Books and quizzes = 25 books plus 3 quiz books*
 3. *Maths = 2 math books*
 4. *No books (control group) = 25 books in Term 1*



RESEARCH QUESTIONS

- Do students who receive books over summer make greater progress than students in the control groups?
- Do students who are below expectation in reading gain from the summer programme?



ASSESSMENTS

- STAR Test: December and February; 472 students; 9 schools
- Burt Word Reading Test: 565 students
- YARC Reading Assessment: 566 students
- WRAT Math: 564 students
- Bryant Test of Basic Decoding Skills: 565 students
- Puppy Dog: student reading attitude survey
- Probe/PM: 8 schools only



DATA ANALYSIS

- Overall
- Overall “At Risk”
- Overall “Not at Risk”
- Low SES
- Low SES and “At Risk”
- Low SES and “Not at Risk”
- High SES
- High SES and “At Risk”
- High SES and “Not at Risk”



DETERMINING RISK

- STAR and WRAT: based on stanines; stanine 4 and below = at risk
- Probe, PM, YARC, and Burt: 6 months or more below chronological age = at risk
- Bryant: below the median (27) = at risk



SIGNIFICANT RESULTS

- **STAR: Low SES and “At Risk”** – Books only group was approaching significance over the control group (0.052). A significant difference between the Math Group and the Control group (0.041)
- **Bryant: Overall** – a significant difference between the Books Only group and the Control Group (0.006); **Overall and “At Risk”** – significant differences between Books Only and the Control Group (0.008), Books and Quizzes and the Control Group (0.014), the Math Group and the Control Group (0.033)



SIGNIFICANT RESULTS CONT.

- **YARC Accuracy – Overall and “At Risk”** – a significant difference between the Maths group and Books and Quizzes (0.044); significant difference between the Maths group and the Control group (0.005). Books Only approaching significance over the Control group (0.057);
Low SES – a significant difference between Books only and Books and Quizzes (0.025);
Low SES and “At Risk” – a significant difference between Maths group and Books and Quizzes (0.039) and between Maths and the Control group (0.016)



SIGNIFICANT RESULTS CONT.

- **WRAT Maths Raw Score: Overall and “At Risk”** – significant differences between Books Only and Books and Quizzes (0.008) and between Maths and Books and Quizzes (0.006) and between Control and Books and Quizzes (0.014);
Low SES – significant differences between Books Only and Books and Quizzes (0.038) and between Maths and Books and Quizzes (0.007);.



SIGNIFICANT RESULTS CONT.

- **Low SES and “At Risk”** – significant differences between Books Only and Books and Quizzes (0.006), between Maths and Books and Quizzes (0.002), and between Control and Books and Quizzes.
- **WRAT Math Stanines – Low SES and “At Risk”** approaching significance (0.051)



OTHER RESULTS

- **STAR** – overall there was a drop in reading achievement of nearly 1 stanine, from 5.3 to 4.4 – indicates Summer Slide
- **BURT** – students improved in reading age on this test – no significant differences between the groups
- **YARC Comprehension** – no significant differences
- **WRAT Math stanines** – overall there was a drop in mean stanine between December and February from 4.77 to 4.43



RESEARCH QUESTION 1

- **Do students who receive books over summer make greater progress than students in the control groups?**

In basic decoding, the Books, Books and Quizzes and Maths groups made better progress than the control group.

In STAR the Low SES and “At Risk” Maths group made better progress than the control group and the Books Only group approached significance



CHILDREN'S FEEDBACK

Books	Books and quizzes	Maths
<ul style="list-style-type: none">• loved the books• love reading, loved the books• books were okay, but doesn't like reading• good• a bit too easy• too easy, not thick enough!• interesting. Best books "Danger on Copper Mountain", and "Lost Valley"	<ul style="list-style-type: none">• liked the books but quizzes were boring• okay but too many quizzes• liked the animals book, and quizzes were ok• Good. It helped to pronounce words properly	<ul style="list-style-type: none">• Workbooks were too easy• okay• okay, but only managed to finish the first one..."it was the holiday..."• okay but found them quite hard• too easy• workbooks were pretty hard, mum helped.

