

Summer Reading Project 2012/2013

Summary of Results



- 1. Do parent prompts add to the effectiveness of a summer programme which introduces to homes books, or books with home visits?
- 2. Can a summer programme be designed for maths?
- 3. What characteristics of children and families are associated with higher (or lower) gains?



- Reading-Significant gains over summer for all three groups (Books, Books + Prompts, Maths), but Books + Prompts group gained more than the Books alone (d = 0.21). The Books + Prompts group accelerated 1 stanine over the seven weeks summer holiday.
- Mathematics- Maths and Books + Prompts groups gained but no significant differences in gains over summer but Maths group gained most (d = 0.10).
- Decile Levels-the patterns are detectable in the 5 Low SES and 2 High SES schools.
- Ability Groups-the Books + Prompts programme added significantly to the gains for students who were initially behind National levels in reading.



- Family and student characteristics:
 - Significant difference between families in (self reported) number of books at home- High SES (77books) and Low SES (26 books). Good readers in Low SES have lower numbers (32 books) than good readers in High SES schools (84 books)
 - Amount of time spent reading very similar across groups (around 22 minutes per day)
 - Differences between families in frequency of using library (families in High SES schools generally more frequent)
 - Number of books read (self reported) very similar around 19 over the summer



454 Year 3 students

- > Five Decile 1 schools-327 students
- > Two Decile 10 schools-127 students

 Randomly assigned to three treatment groups (Books only, Books + Prompts, and Mathematics)



Books only (B)	Books + Prompts (B+P)	Mathematics (M)
 25 self-selected books reading logs four home visits survey(parent and student) 	 25 self-selected books reading logs comprehension card* four home visits survey(parent and student) 	 Mathematics workbooks two/three home visits survey(parent and student)

Before reading the story-"what do you think the story might be about?" After reading the story-"How did the story end? Can you think of another ending?"

^{*} Simple generic questions like:



Measures

STAR Reading Test

PAT Mathematics Test



Overall Results: Reading

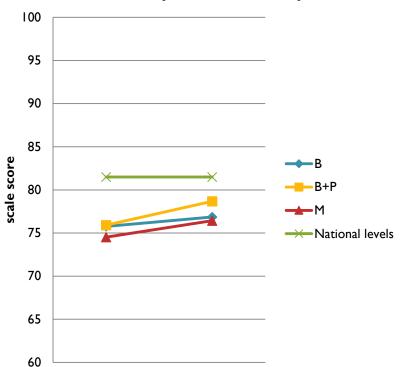
- a) Significant effect of time from pretest to posttest
- b) Each group has significant gains
- c) Books + Prompts group gained 1 stanine over the summer
- d) Books group's gain scale scores = 1.09
- e) Books + Prompts group's gain scale scores = 2.78
- f) B + P vs B (moderate effect size d = 0.21)

Overall Results: Mathematics

- a) Maths group and Book + Prompt group gained.
- b) No significant differences in gains over the summer, but Maths group gained most.
- c) In terms of scale scores, Maths group gained 1.3; Books + Prompts group gained 1.14; and Books only group dropped -0.21.
- d) M vs B (moderate effect size d = 0.19)
- e) M vs B+P (small effect size d = 0.02)

Results-STAR and PAT (mean scale score)

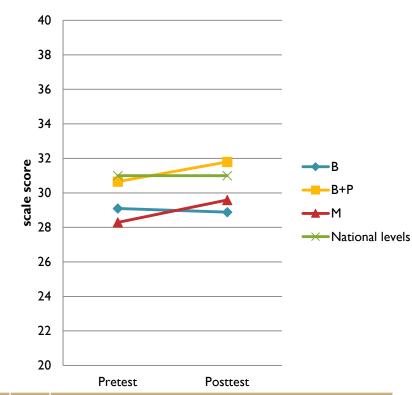




Posttest

Pretest

PAT Mathematics



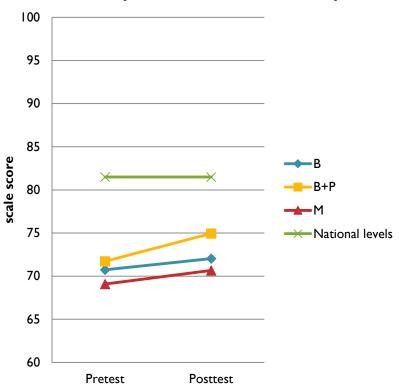
Group	STAR (scale score)			PAT (scale score)		
	Pretest	Posttest	Gains/Losses	Pretest	Posttest	Gains/Losses
В	75.77	76.86	1.09	29.09	28.88	-0.21
B+P	75.91	78.68	2.77	30.66	31.80	1.14
M	74.42	76.42	1.89	28.29	29.59	1.3



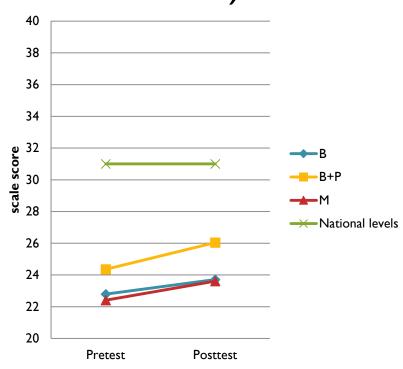
- The patterns are detectable in the Low SES and High SES schools.
- There were significant effects in time for both decile levels from pretest to postetst, but no difference between the groups.
- Reading-large difference at pretest scale scores between low and high decile schools.

Results-STAR and PAT (Low decile schools)





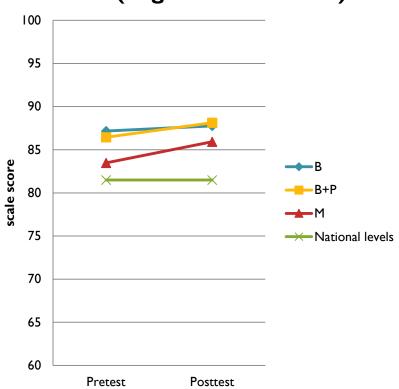
PAT Mathematics (Low decile)



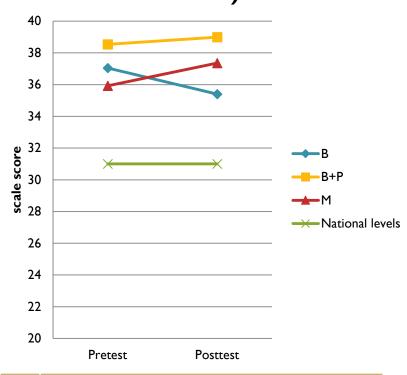
Group	STAR (scale score)		PAT (scale score)			
	Pretest	Posttest	Gains/Losses	Pretest	Posttest	Gains/Losses
В	70.73	72.04	1.31	22.80	23.72	0.92
B+P	71.73	74.94	3.21	24.36	26.04	1.68
M	69.10	70.67	1.57	22.41	23.61	1.2

Results-STAR and PAT (High decile schools)

STAR (High decile schools)



PAT Mathematics (High decile)



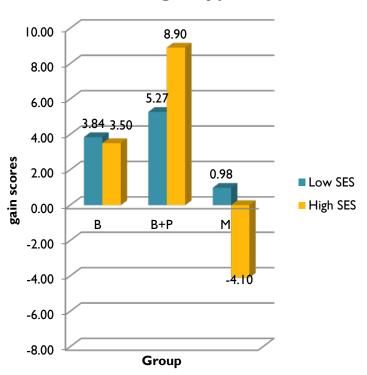
Group	STAR (scale score)		PAT (scale score)			
	Pretest	Posttest	Gains/Losses	Pretest	Posttest	Gains/Losses
В	87.17	87.76	0.59	37.04	35.40	-1.64
B+P	86.45	88.13	1.68	38.54	38.99	0.45
M	83.48	85.93	2.45	35.93	37.36	1.43

Results (Ability Groups)

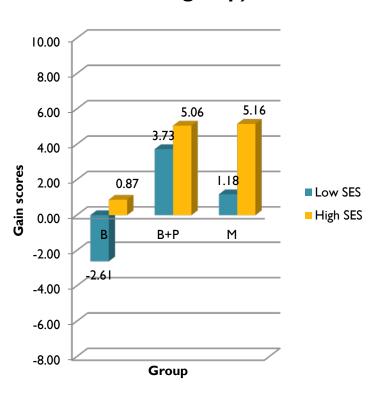
- "well below", "just below", 'at" and "above" groups made large gains in reading test
- The Books + Prompts programme added significantly to the gains for "well below" and "just below" groups (medium effect size d = 0.41)

Results-Reading between Ability Groups and Decile Levels

STAR (mean gain scores-"well below" group)

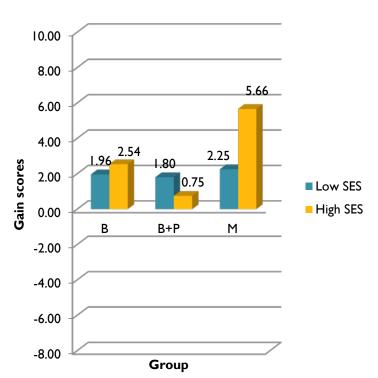


STAR (mean gain scores -"just below" group)

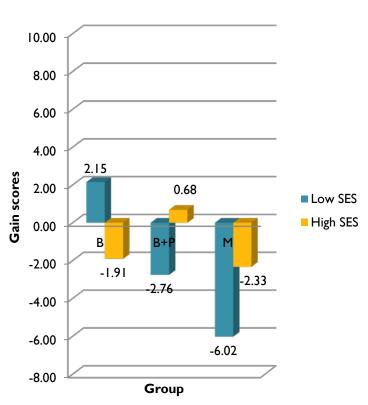


STAR group)

(mean gain scores-"at"



STAR (mean gain scores-"above")





Student-Reading Attitude Survey

 12 questions on how students feel about their own reading at home and in school

Parent-Home Literacy Survey

 16 multiple choice questions, some with openended questions on child's home reading practice

Student Survey

- Return rate (53%)239 students completed the survey
- ➤ Books only 42%
- > Books + Prompts- 41%
- > Mathematics 18%
- Students scored 30-31 out of 36
- Generally happy with their reading at home and in school (low and high SES schools)

Parent Survey

- Return rate (67%)
- 302 parents completed the survey
- ➤ Book only 38%
- Books + Prompts- 37%
- > Mathematics 25%

Parent Survey

Q: How many children's books do you have at home?

- 246 parents responded to this questions
- Significant difference between high and low SES schools
 - > Low SES: 26 books
 - > High SES: 77 books

A Low SES schools

- ➤ Good readers: 32 books (N=41)
- Poor readers: 24 books (N=103)

High SES schools

- Good readers: 84 books (N=84)
- Poor readers: 43 books (N=18)



Parent Survey (self-report)

 Amount of time reading to the children each day

Parent Survey

- Amount of time reading to the children each day
 219 parents answered this question
 - > 23 minutes in Low SES
 - > 21 minutes in High SES

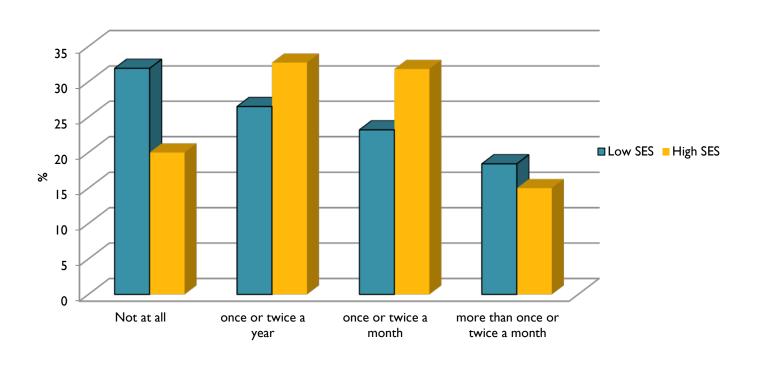
Low SES schools

- > Good readers: 23 minutes(N=41)
- > Poor readers: 22 minutes (N=85)

High SES schools

- ➤ Good readers: 21 minutes (N=77)
- > Poor readers: 23 minutes (N=16)

How often does your child go with you or someone in your family to the public library?



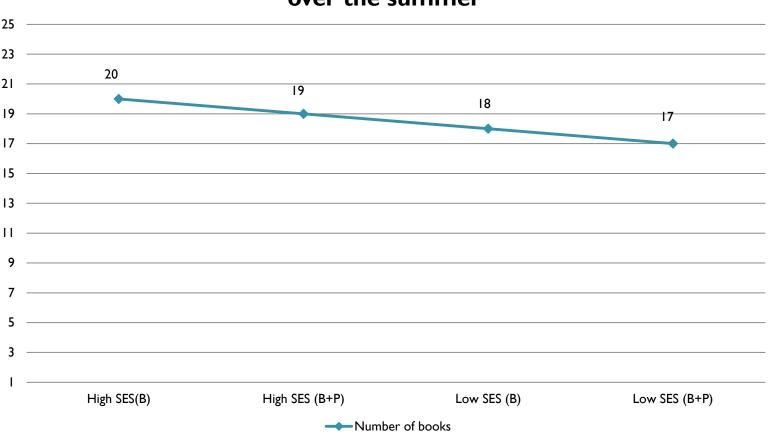
Reading Logs

226 students returned their reading logs

- Books only (111 students)
- ➤ Low SES-71 students (64%)
- > High SES- 40 students (36%)
- Books + Prompts (115 students)
- ➤ Low SES-78 students (68%)
- > High SES- 37 students (32%)

Reading Logs

Total number of books students read over the summer



Books At Home & Library Visits

	Parents read to child everyday + frequent library visits	Parents do not read to child everyday + few library visits (≤ 3 times a year)
Books at home	32 books	13 books
STAR gains in reading (scale scores)	+ 5.01	+ 1.01



- Promising direction for further programme development indicated by having parent prompts and explicit support.
- May need "targeting" for families who don't have books, don't go to the library, don't read often; these families may require deliberate focus
- Further analyses needed to understand these patterns
- Why did Maths group make gains in reading?



- Parent and student survey (Term 3)
- Teacher preparation: revise reading comprehension strategies (Books Groups) and mathematics strategies (Mathematics Groups) at the end of Term 4
- Parent pre-summer training
- Parent support during summer

Summer Reading 2013/2014

Во	oks	Mathematics		
Group 1	Group 2	Group 3	Group 4	
Books + Prompts (generic)	Books + Prompts (generic & support)	Math + Prompts (generic)	Math + Prompts (generic & support)	
 Books Comprehension card Reading logs Student presummer reading session Home visits (no explicit support) 	 Books Comprehension card Reading logs Student presummer reading session Parent presummer reading session Home visits 	 Mathematics workbook(s) Maths prompt cards Reading logs Student presummer maths session Home visits (no explicit support) 	 Mathematics workbook(s) Maths prompt cards Reading logs Student presummer maths session Parent presummer maths session Home visits 	



Follow up study from Summer Project 2012/2013

Re-test STAR and PAT mathematics