

Department of Psychology

Vocabulary and Reading in Secondary School (VaRiSS)



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Vocabulary and Reading in Secondary Schools (VaRiSS) Project



- Vocabulary contributes to reading development
- Reading provides opportunities for new word learning
- Fostering reading and vocabulary is essential for learning across the curriculum
- Reading to learn' a particular focus in secondary school
- Little data on vocabulary and reading in secondary school

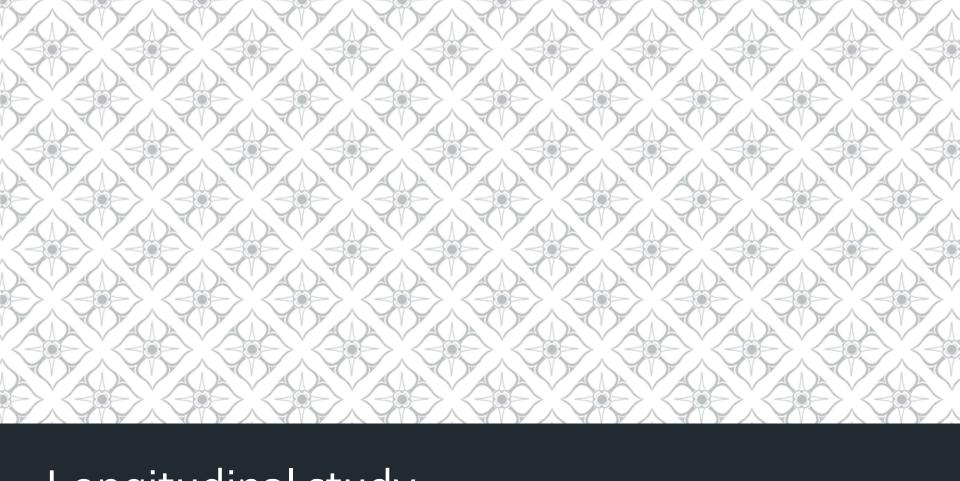
Project overview



Study 1: Longitudinal



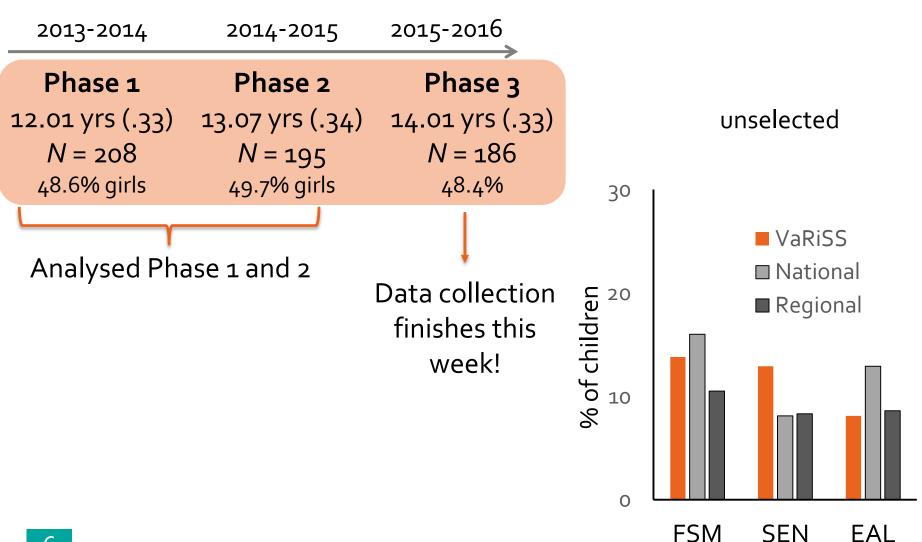
- Study 2: Learning new words with access to printed forms
- Study 3: Learning new words while reading watch this space!



Longitudinal study

Rationale

Design and participants

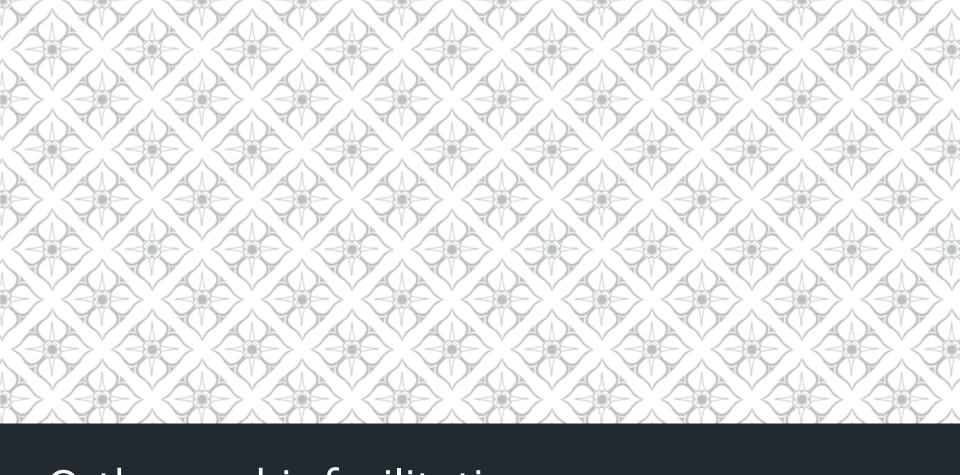


Method

- 6 hours with each pupil (2 hours per year)
- Nonverbal reasoning
- Oral vocabulary (two measures)
 - Receptive, expressive, depth and breadth
 - Also, semantic relationships between words (where possible)
- Word-level reading (six measures)
 - Nonwords, regular words, irregular words, accuracy, efficiency
- Reading comprehension (one measure)
 - Minimum four passages (individual differences, reliability)

Summary of results

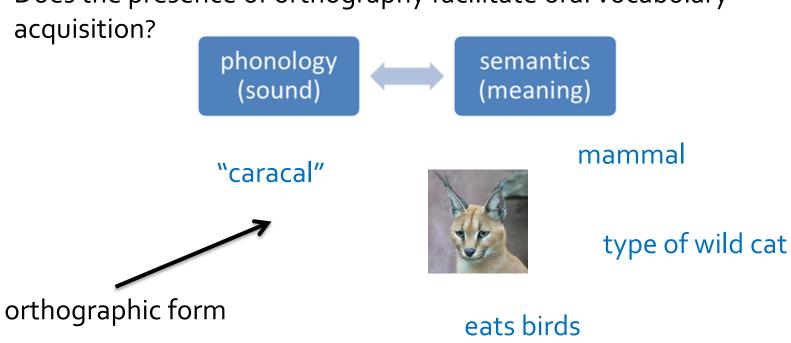
- Between 15% and 20% of pupils are experiencing reading difficulties at the beginning of secondary school. Can't assume that secondary pupils can read effectively.
- Limited development in this period
- Remarkably high longitudinal stability in oral vocabulary, reading comprehension and word reading in early adolescence, indicating:
 - Good measurement
 - Performance at 12 years explains almost all/all of the variance at 13 years
 - Rankings are fixed
- No evidence for the hypothesised vocabulary reading relationships



Orthographic facilitation

Rationale

Does the presence of orthography facilitate oral vocabulary



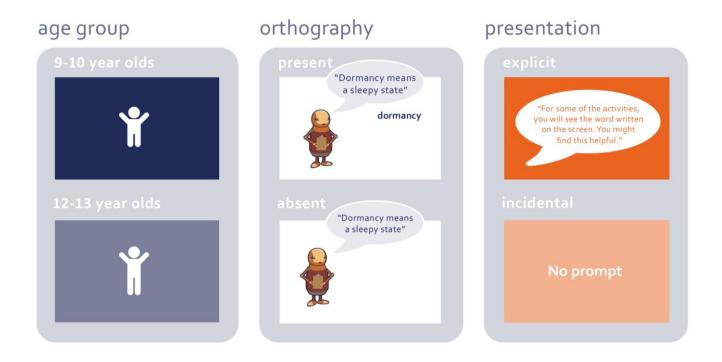
Theoretical and practical motivation

Background

- Children more likely to learn words that have been taught with support from orthography
 - Typically developing children (Ricketts et al., 2009; Rosenthal & Ehri, 2008),
 ASD (Lucas & Norbury, 2013, Ricketts et al., 2015), SLI (Ricketts et al., 2015)
 and Down syndrome (Mengoni et al., 2013)
- Implications
 - Emphasise orthography whilst teaching new vocabulary
 - Incorporate into intervention approaches
 - In the classroom, strategy is common but not universal (66% in observations of 147 classrooms including pupils with SLCN)

New directions

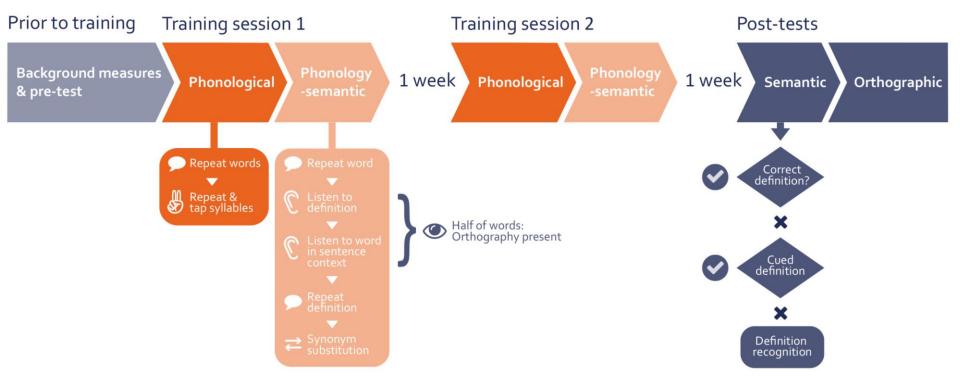
- Instructions: compare explicit and incidental conditions for first time
- Replicate orthographic facilitation effect in older children (12-13y)?



Words and procedure



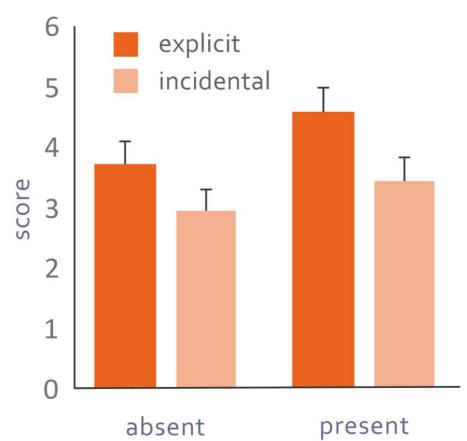
Royal Holloway Department of Psychology



Semantic learning (*M*±*SE*)

Correct definition = 2, correct cued definition = 1, otherwise = 0
Thus max = 16 for each bar
Collapsed by age (ns)

- Orthography p = .01
- Age ns
- Presentation p = .03



Conclusions

- Equivalent learning in 9 and 12 year olds
- Orthographic facilitation for oral vocabulary learning
 - Consistent with previous studies
 - Using paradigm that teaches real polysyllabic words and richer semantic representations
- Explicitly emphasising orthography leads to benefit (but general)
 - General increase in engagement with the task?
 - Instructions prime participants to generate their own orthography?

Take home messages

- Longitudinal study
 - Some pupils have poor vocabulary and reading in the early secondary years
 - Little growth during this period of development
 - Rankings seem to be fixed
- Orthographic facilitation
 - Children and adolescents are more likely to learn words that have been taught with support from orthography
 - Especially if attention is drawn to orthography and how it could be useful

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- LARA lab: http://pc.rhul.ac.uk/sites/lara/people/; @ricketts_lara
- The VaRiSS project: www.facebook.co.uk/varissproject