

### BUILDING SKILLED READERS:

### BEST PRACTICE IN READING INSTRUCTION

### **SESSION 1:**

Evidence-based foundations of the science of reading
- Dr Jennifer Buckingham

### **AND**

Mastering Decoding and Word Recognition Skills
- Lisa Bellman Ansell & Sarah Collins

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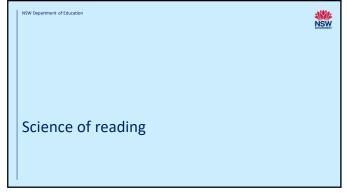






Evidence-based foundations of reading	f the science of
Dr Jennifer Buckingham Executive Director, Policy and Evidence Centre for Education Statistics and Evaluation (CESE)	3 March 2025
NSW Department of Education	NSW Ordersteen





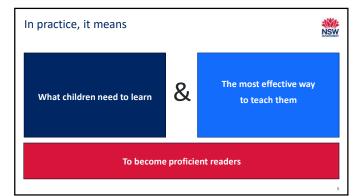
### A definition



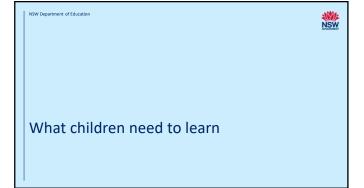
"The science of reading is a vast, interdisciplinary body of scientifically-based research about reading and issues related to reading and writing. This research has been conducted over the last five decades across the world, and it is derived from thousands of studies conducted in multiple languages. The science of reading has culminated in a preponderance of evidence to inform how proficient reading and writing develop; why some have difficulty; and how we can most effectively assess and teach and, therefore, improve student outcomes through prevention of and intervention for reading difficulties."

The Reading League, 2022

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- There is a large research literature showing that there are essential knowledge and skills for reading.
- These components of reading are interconnected and interrelated.
- Scientific evidence-based theoretical frameworks for reading place the components

'Scientific evidencebased theoretical frameworks or models of reading'

Sounds like word salad. What does it mean?



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Scientific evidence-based theoretical frameworks or models for reading



In other words, based on evidence from scientific research.

Scientific research is conducted using experimental (such as RCTs) and non-experimental methods (such as large sample empirical studies).

There are a number of guiding principles for scientific research:

- Pose significant questions that can be investigated by collecting objective data
   Link research to relevant theory
   Use methods that permit direct investigation of the question
   Provide a coherent and explicit chain of reasoning
   Replicate and generalise across studies
   Disclose research to encourage professional scrutiny and critique

Vaughn & Fletcher (2021)

### Scientific evidence-based theoretical



frameworks or models for reading

Theoretical (sometimes called conceptual) frameworks or models are used in all disciplines and attempt to represent the factors that contribute to an occurrence, and the way in which those factors relate to each other.

For researchers, it allows specific hypotheses to be tested and either supported or refuted, and build a coherent evidence base.

In the case of reading, according to Hoover and Tunmer (2020),

"It provides a way for reading professionals to think about reading and its development and gives them mechanisms that, coupled with such understanding, will help them link what children must know to become strong readers to what teaching can best provide through the competent use of available tools."

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Scientific evidence-based theoretical frameworks or models for reading



To be able to read is to be able to decode and understand text.

There is an additional question of what it means to be able to read well or proficiently but

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### Why frameworks are useful



- Increase the likelihood that all of the essential aspects of reading development are included in planning and guidance
- Reduce the likelihood that instruction and assessment might become heavily skewed toward one set of skills or knowledge
- Reassure school leaders and teachers that a policy or professional learning focus on one aspect of reading
  does not mean that others are dismissed or neglected
- $\bullet \quad \text{Provide a structure that it is understood, accepted and implemented consistently}$

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### Theoretical models with a strong evidence base



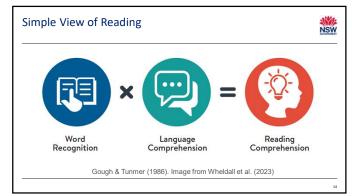
There are a number of credible theoretical models of reading but some have become more widely accepted because they have a stronger scientific evidence base and/or have clearer instructional applications.

Three of the most well-known are:

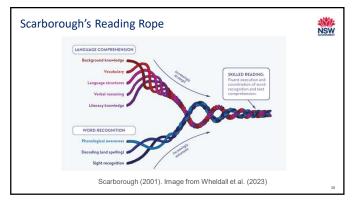
- Simple View of Reading (Gough & Tunmer, 1986)
- Scarborough's Reading Rope (Scarborough, 2001)
- Cognitive Foundations Framework (Hoover & Tunmer, 2019)

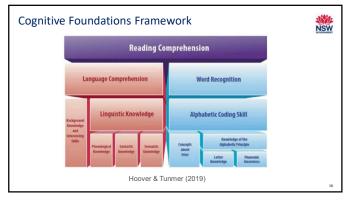
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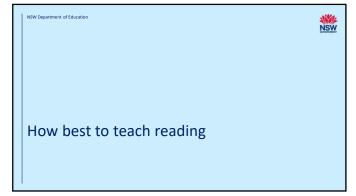
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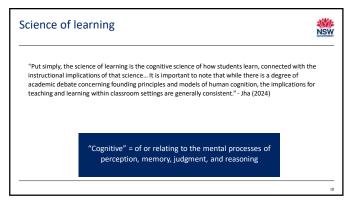


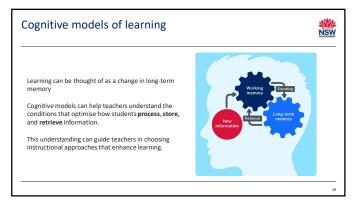
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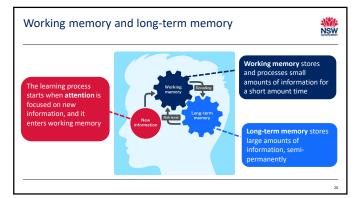


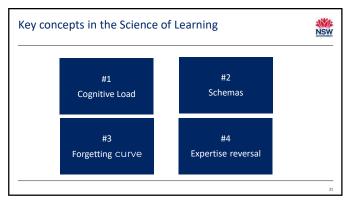


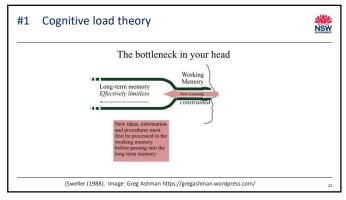


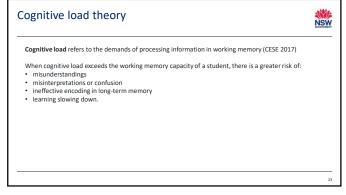


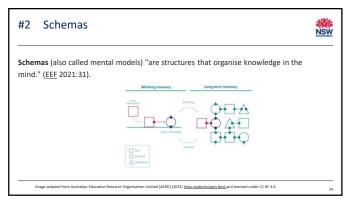


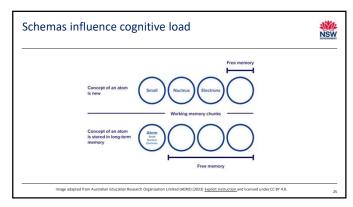


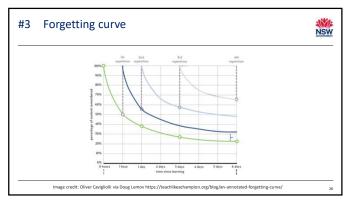


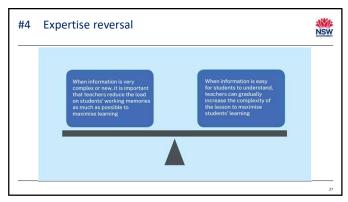


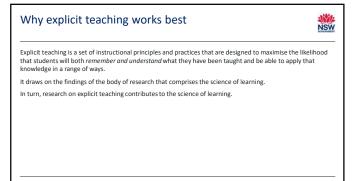


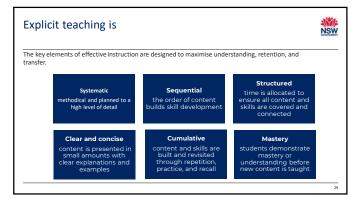


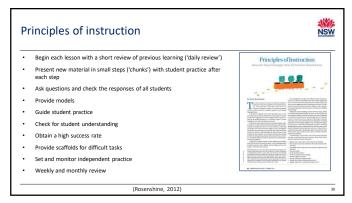




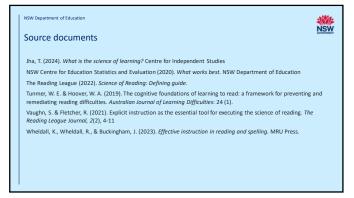








Why explic	NS			
	Cognitive load	Schema	Forgetting curve	Expertise reversal
Systematic				
Sequential				
Structured				
Clear and concise				
Cumulative				
Mastery				



### Learning Difficulties Australia Learning Difficulties Australia Learning Difficulties Australia is an association of teachers and other professionals dedicated to assisting students with learning difficulties through effective teaching practices based on scientific research. www.ldaustralia.org f @LearningDifficultiesAustralia enquiries@ldaustralia.org ©LD\_Australia

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We would like to acknowledge the traditional owners of country and their connections to land, sea and community. We pay our respect to their elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples today.



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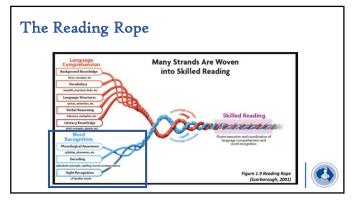
## Lisa Bellman Ansell & Sarah Collins Use Selman Ansell & Ed-Honours) Userocy consulters & presenter Flots ink founder & educator Lisa & Sarah are both qualified feachers with additional training in evidence-based literacy instruction. After seeing children falling through the gaps in their local catholic and state education settings, they founded Rids ink to ensure that all children in their community could access high quality iteracy instruction.

### Mastering Decoding and Word Recognition Skills

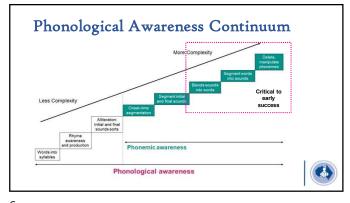
By Lisa Bellman Ansell & Sarah Collins



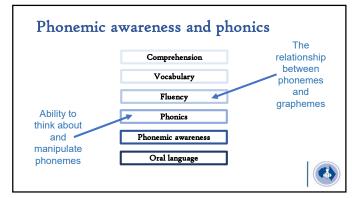
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PHONOLOGICAL			Words	Syllables	Rhyme	Onset-rime	Initial	Final	phoneme	Medial phoneme	Second	Third	Internal	p honemes
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### Phonemic awareness and phonics

Dr. Linnea Ehri  $(\ldots)$  strongly believes the benefits of these two areas of teaching to be reciprocal...

'the teaching of PA enhances the decoding skills taught in phonics, and the phonics instruction helps students to develop the phonemic sensitivity children need to gain.'

It would be erroneous to conclude that these skills need be taught separately.

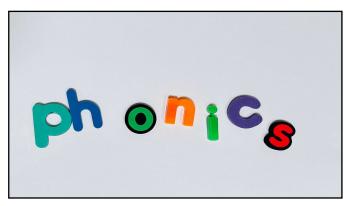
Timothy Shanahan



### Sound Swap



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### Effective phonics instruction includes...

### The alphabetic code

- All 44 phonemes in a systematic order
- Different spellings of each phoneme (graphemes)

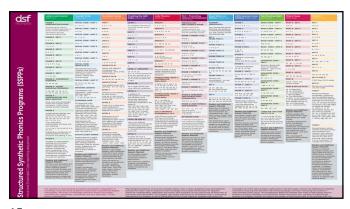
### Phonemic awareness and phonics skills

- Blending phonemes to read words (decoding)
- Segmenting phonemes in words to spell (encoding)
- Manipulate phonemes/graphemes in words to read and spell









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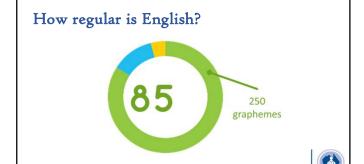
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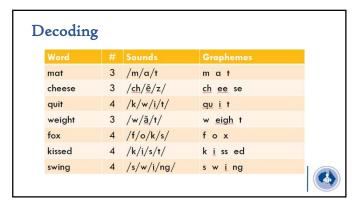
### Sound Swap



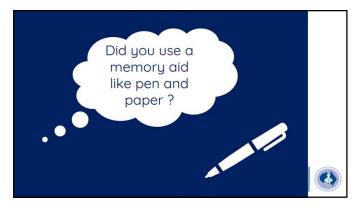


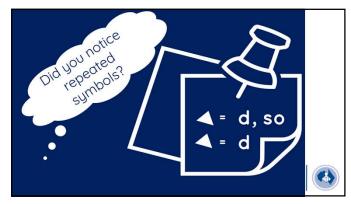
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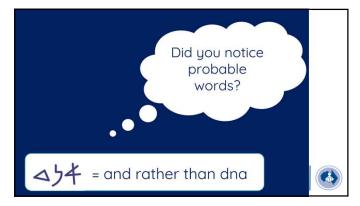




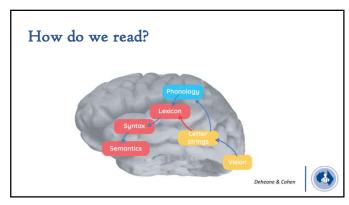


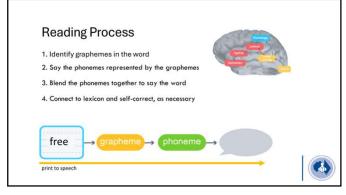


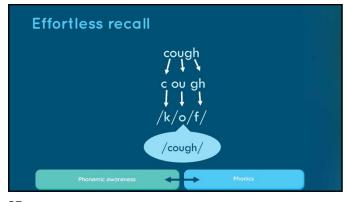












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"Orthographic mapping is the process readers use to store written words for immediate, effortless retrieval.

It is a means by which readers turn unfamiliar words into familiar, instantaneously accessible sight words."

-David Kilpatrick, 2015



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"Fluency has a transformational impact on the reading process: it is the point at which component skills are so automated and highly integrated that maximum cognitive energy is available to focus on meaning."

Konza, 2014



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**Evidence** suggests that phonics teaching is more effective when children are given immediate **opportunities to apply** what they have learned to their reading.

(Hatcher, Hulme, and Ellis, 1994)



### What are decodable books?

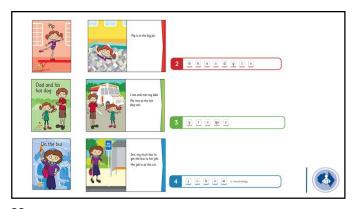
- Phonetically controlled texts
- Designed for practising the skill of decoding, and ultimately fluency
- Steady progression of phonemes, building on previous knowledge
- Real story with characters, plot, fluent language and story structure
- Promote vocabulary development

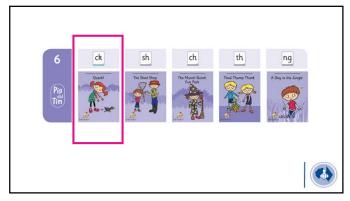


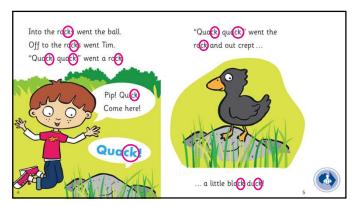
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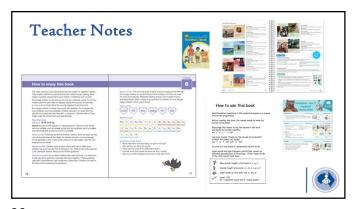


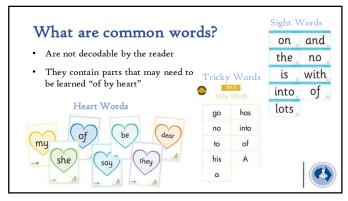
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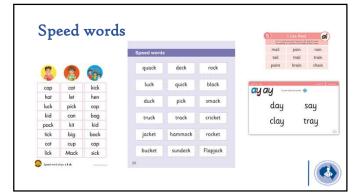


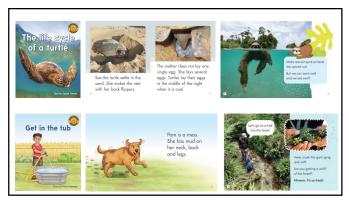








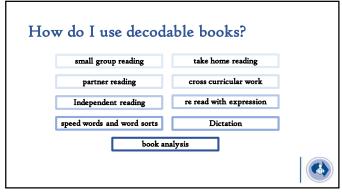












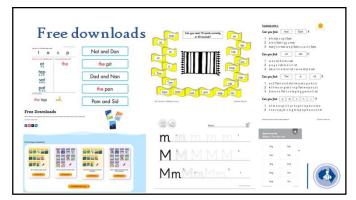
### Should I send decodable books home?

- Crucial to build fluency and confidence
- To reach mastery children should read the book several times





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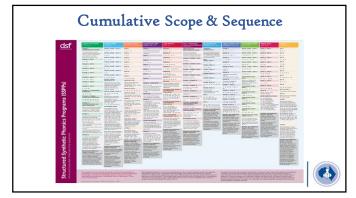
### **Evidence Based Instruction**

"Whether it is a child or adult who wants to learn to read, the information they need to know and the process they need to go through is exactly the same.

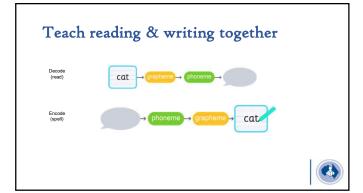
For this reason, a structured synthetic phonics approach is suitable for beginning readers and those struggling to learn to read and spell, regardless of age."

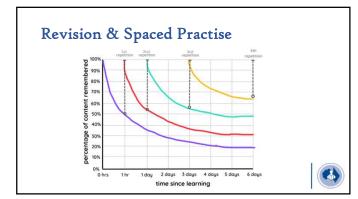


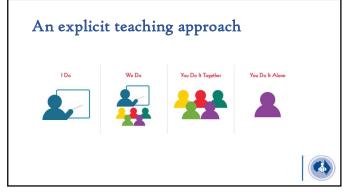
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### Instructional Routines

- •Reduce amount of new information to process
- •Reduce teacher planning time
- Learn new things fasterKeep students' attention



"Students cognitive energies must be divided between the task and the content.

However, if an instructional routine is used students can place their attention solely on the content, which is **exactly** where we want them to focus."

Anita Archer



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# The Reading Rope Language Competention Many Strands Are Woven into Skilled Reading Nonlanguage to the strange of the strang

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"Helpful for all children, Harmful for none, Crucial for some"

C. Snow and C. Juel (2005, p. 158



Thank you  Lisa Bellman Ansell Isa Biddinkeducifon.com.au	
Sarah Collins sarah@kidinkeducation.com.au	