

Catalyst

KNOWLEDGE PACK 1.0



Welcome to the first Knowledge Pack, a suite of resources and readings that will give you a greater understanding of the foundational research and theories that underpin the **Catalyst** program and our key initiatives.



Recommended Readings

The following resources will inform you about the Science of Learning and Cognitive Load Theory, which is the foundation on which **Catalyst** has been built.

The Science of Learning

A summary of existing research related to how students learn, and practical implications for teaching and learning.

Deans for Impact

 [VIEW PDF](#)

Cognitive load theory: Research that teachers really need to understand

A discussion on cognitive load theory, the limitations of the work memory and how you can support students to overcome the limits of the working memory.

NSW State Government, Centre for Education Statistics and Evaluation

 [VIEW PDF](#)



Further Readings

Each initiative within the **Catalyst** program has been informed by global and local research. The following readings will help you understand the underpinning research and theories on which we have developed the **Catalyst** program and four key initiatives on.

1 Instructional Leadership

2 High Impact Teaching Practice

3 K-2 Literacy

4 Curriculum

1 Instructional Leadership



LINKS KEY

 READING RESOURCE (LINK TO PDF)

 LISTENING RESOURCE (LINK TO AUDIO MP3)

Teacher's bookshelf: Educational leadership

Professor Stephen Dinham draws on research from Australia and around the world to explore the importance and impact of instructional leadership.

Stephen Dinham for Australian Council for Educational Research

 [VIEW PDF](#)

How To Lead School-Wide Change That Sticks

Tom Cain and Matt McLaren review Vivianne Robinson's synthesis of evidence on instructional leadership.

Thinking About Teaching Blog

 [VIEW PDF](#)

Teachers Taking up Explicit Instruction: The Impact of a Professional Development and Directive Instructional Coaching Model

Dr Lorraine Hammond demonstrates the impact of a practical professional development and directive instructional coaching model.

Lorraine Hammond and Wendy M Moore for the Australian Journal of Teacher Education

 [VIEW PDF](#)

2 High Impact Teaching Practice (HITP)



LINKS KEY

 READING RESOURCE (LINK TO PDF)

 LISTENING RESOURCE (LINK TO AUDIO MP3)

Principles of Instruction – Research-based Strategies That All Teachers Should Know

This article presents 10 research-based principles of instruction, along with suggestions for classroom practice.

Barak Rosenshine for American Educator

 [VIEW PDF](#)

Exploring Barak Rosenshine’s seminal Principles of Instruction: Why it is THE must-read for all teachers

Tom Sherrington reviews Barak Rosenshine’s research-based principles.

Tom Sherrington reviews Barak Rosenshine’s research-based principles.

 [VIEW PDF](#)

What works best in practice

A discussion on strategies and pedagogy that works best in practice to support teachers to implement evidence-based themes.

NSW State Government, Centre for Education Statistics and Evaluation

 [VIEW PDF](#)

3 K-2 Literacy



LINKS KEY



READING RESOURCE (LINK TO PDF)



LISTENING RESOURCE (LINK TO AUDIO MP3)

Hard Words - Why aren't kids being taught to read?

Hanford explores the scientific research behind how children learn to read and how they should be taught.

Emily Hanford for APM Reports



VIEW PDF

Effective reading instruction in the early years of school.

An exploration of the five key components of effective reading programs.

NSW State Government, Centre for Education Statistics and Evaluation



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SOLAR: The Science of Language and Reading.

A discussion on oral language as a central driver to successful reading.

Pamela C. Snow for Child Language Teaching and Therapy



VIEW PDF

4 Curriculum



LINKS KEY

 READING RESOURCE (LINK TO PDF)

 LISTENING RESOURCE (LINK TO AUDIO MP3)

Education Research Reading Room Podcast #034 - Natalie Wexler on the Knowledge Gap

Natalie Wexler and Ollie Lovell discuss the Knowledge Gap and the importance of building the knowledge and vocabulary children need to understand both written texts and the world around them.

 [LISTEN TO AUDIO](#)

[The radical case for teaching kids stuff](#)

 [VIEW PDF](#)

You Can Always Look It Up”... Or Can You?

A discussion on why knowledge is a cornerstone of our understanding of the world.

[E.D. Hirsch Jr. for American Educator](#)

 [VIEW PDF](#)

If you would like
to learn more



Follow Ollie Lovell's Education Research Reading Room (ERRR) podcast

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Check out the Science of Reading Podcast from Amplify

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Check out the ResearchED magazine

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Join the Reading Science in Schools Facebook Group

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