# TEACHING MATTERS SCIENCE OF LEARNING NATIONAL SUMMIT

# Science of Learning movement across the nation

Dr Jenny Donovan, Chief Executive Officer, AERO



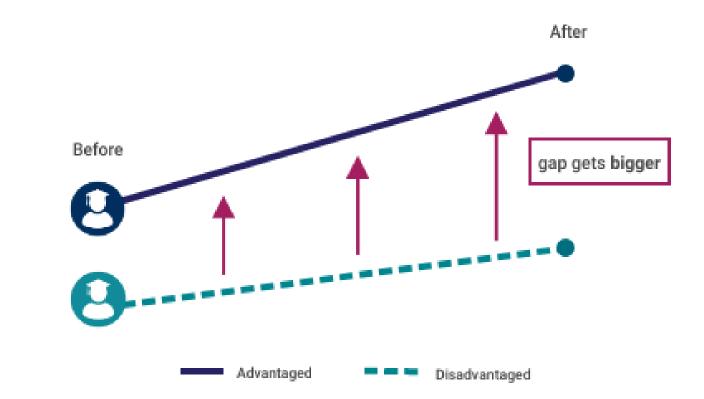




### Acknowledgement of Country

The Australian Education Research Organisation (AERO) acknowledges the Traditional Owners and Custodians of Country throughout Australia and their continuing connection to land, waters and community. We pay our respects to them and their cultures, and Elders past and present.

## **The Matthew effect**



https://www.edresearch.edu.au/articles/catching-how-close-equity-gaps-education

AERO is Australia's new independent education evidence body, established and funded by Commonwealth, state and territory governments.



AERO's vision is for excellence and equity in educational outcomes for all children and young people through effective use of evidence

In support of this vision, we:



In many areas, the evidence is clear. We know what works. The challenge is turning that into practice.

LTENER

# **Our Tried and Tested guides**

#### These guides describe the most effective and efficient teaching practices



#### Explicit instruction Know how to teach your students







Australian

#### Formative assessment Know where your students are in their learning









Mastery learning Know how to make sure your students learn







Spacing and retrieval practice Improve students' long-term retention of learning





Focused classrooms Managing the classroom to maximise learning

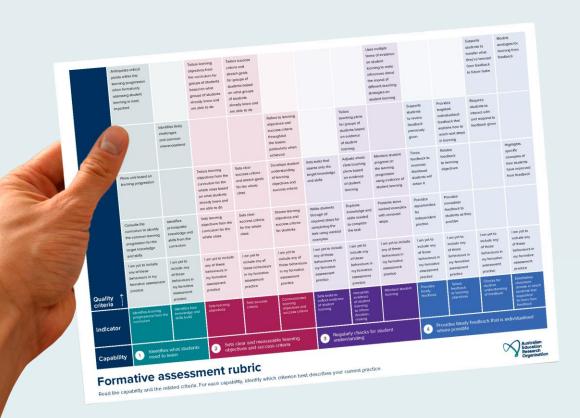


Schools



# **Our teaching resources**

We've produced case studies, video examples of practice, and rubrics and surveys to help teachers and school leaders observe, reflect, and improve practice.





# "But that would never work here..."

Context matters, but not as much as some think for core evidence-based practices







# Are we using evidence in Australia?

## **Standards of evidence**

Level 1 Low	Level 2 Medium	Level 3 – High	Level 4 Very high
confidence	confidence	confidence	confidence
Research	Research	Research shows	Research
hypothesises why the	<i>associates</i> the approach with	the approach <i>causes</i> positive	conducted in my context or other
approach should have positive	positive effects.	effects.	contexts similar to mine shows
effects.			the approach

causes positive

effects.

# **Turn and Talk**



# **Evidence use in schools: a national snapshot**

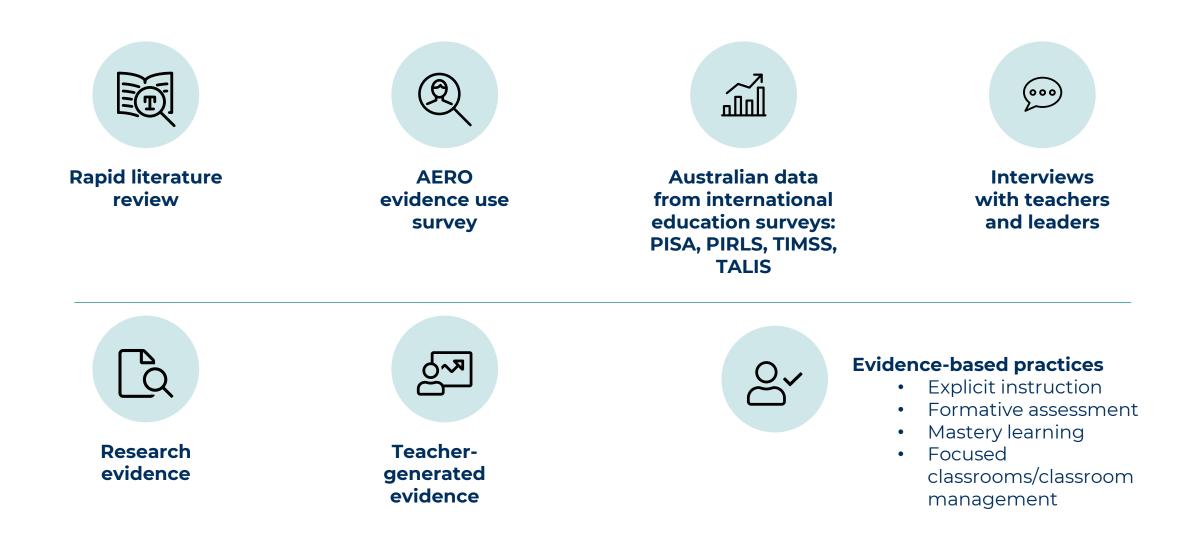
Australian Education Research Organisatio





https://www.edresearch.edu.au/our-work/current-projects/evidence-projects/evidence-use-snapshot





# What we know about using research evidence

#### Educators and teachers don't regularly use research evidence, even when they believe it is useful

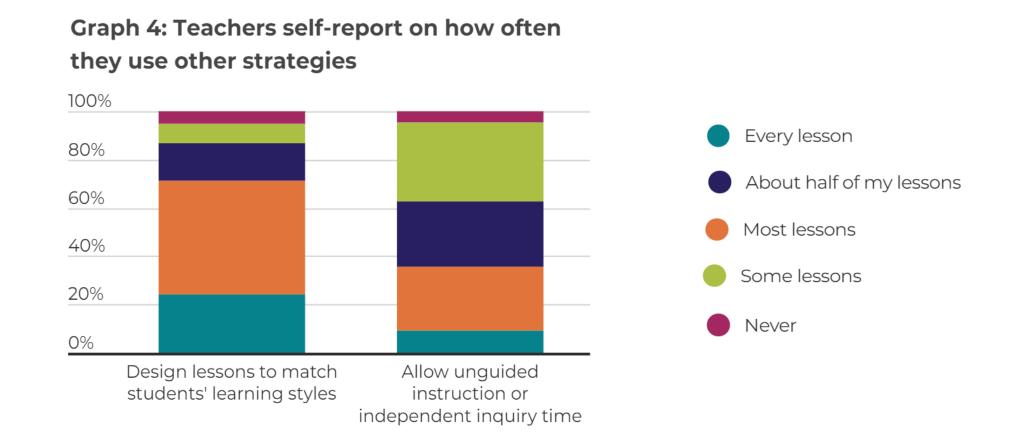


Most (83%) of the school respondents who believe student data is useful for evaluating a teaching practice **also regularly use** data to evaluate their practice.



By contrast, just over half (54%) of the school respondents who believe recommendations from academic research are a useful source of evidence **also regularly use** recommendations from academic research to trial or refine their practice.

# **Teaching practices not supported by evidence**

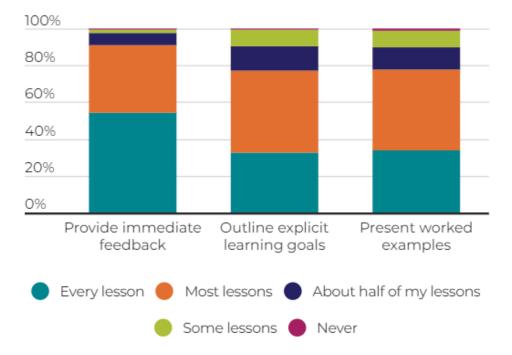


https://www.edresearch.edu.au/articles/evidence-based-teaching-strategies-how-often-are-australian-teachers-using-them

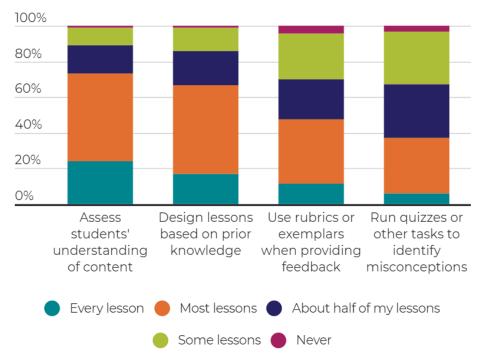
# What we know about using evidence-based practice

#### Evidence-based practices can be broken down into smaller parts, or strategies

# Graph 1: Teachers self-report on how often they use explicit instructional strategies



#### Graph 2: Teachers self-report on how often they use formative assessment strategies



edresearch.edu.au/articles/evidence-based-teaching-strategies-how-often-are-australian-teachers-using-them



No student learning will improve if research and evidence sit unused on a website.

### All parts working together



### Streamlined approach





For more evidence-based research and practical resources

# edresearch.edu.au





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# Questions



# We're always looking for people to test resources and provide feedback!

Get in touch: info@edresearch.edu.au



# Thank you

