Catalyst

An evidence-based approach to learning and teaching for system and school improvement



Speaking today



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Catalyst





56 Schools

across ACT & NSW



Early Learning Centres



1,700+ teachers



700+ support staff



22,500+ students



1,100+ EAL/D students



900+ ATSI students



5,000+ students with disabilities

Catalyst







Informed by

Science of Learning | Science of Reading

Our Bold Goals

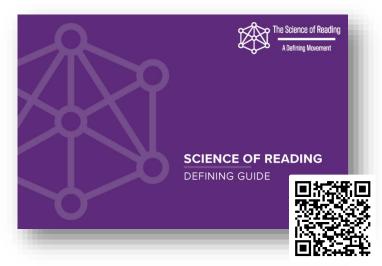
1 Every student is a competent reader

High Impact
Teaching Practice
is visible in every
classroom

Catalyst Guiding Research



Scan to access the reading



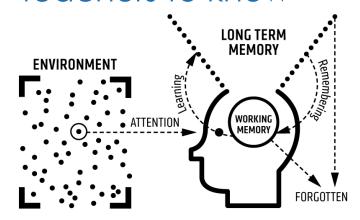
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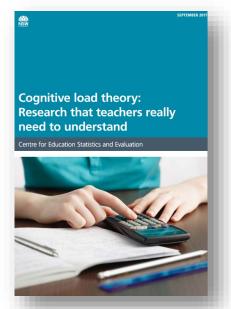


Dylan Wiliam

Cognitive Load Theory is 'the single most important thing for teachers to know'



GUIDING RESEARCH





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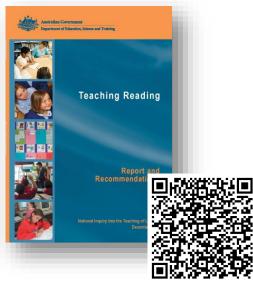
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Research-informed approach to ensuring every student is a competent reader







Catalyst

High Impact Teaching Practice

Transformational teaching practice, based on Rosenshine's Principles of Instruction, to maximise learning impact for every student in every classroom.





The 8 Big Ideas



School is where we learn biologically secondary information



The most efficient way to teach knowledge is to **teach explicitly**



Learning is a **change in long-term memory**



High quality whole class instruction will help all students learn



Teaching is a profession that should be **informed** by the evidence



Reading is essential for students to acquire knowledge



Knowledge matters, it's what we think with



Curriculum should be ambitious, coherent, sequential and cumulative



Catalyst

Our Approach to Professional Learning







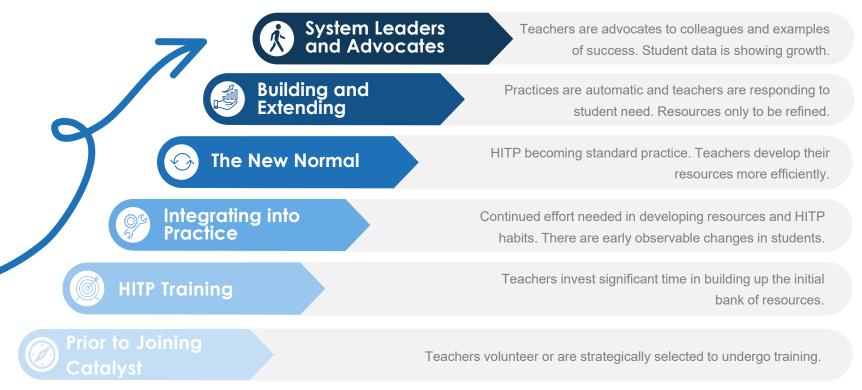


2. Demonstration

1. Theory



The Catalyst Journey



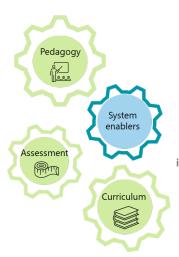




Visual representation of the Catalyst Theory of Change

INPUT: CATALYST

Evidence base & Science of Learning



IMPLEMENTATION

Coaching, change management, case management, school improvement journey support



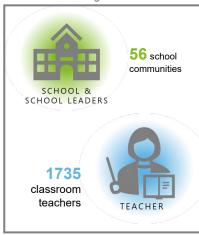
A targeted and multidirectional implementation strategy



Evidence used to refine and target inputs and implementation

THE CHANGE JOURNEY

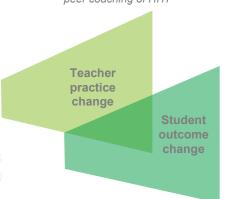
Embedded in the CECG social architecture, individual context and responsibilities of each change agent.



Awareness . Desire . Knowledge . Ability . Reinforcement

DRIVERS OF SUSTAINED OUTCOMES

A whole-school approach including proactive school leadership and peer coaching of HITP



OUTCOMES

Bold Goal 2: High impact teaching practice visible in every classroom

Bold Goal 1: Every student is a competent reader

System
Outcomes:
Improved student
outcomes

Improved student wellbeing

Improved professional satisfaction for teachers

Improved student attraction & retention

Improved staff attraction & retention





Change Management Approach

	Awareness	Desire	Knowledge	Ability	Reinforcement
School leader	aware of the effectiveness of HITP and Catalyst	want to create the conditions for Catalyst to thrive	understand how to make time for PD, coaching, planning and analysing data	have the skills and resources to implement Catalyst and make amendments based on data	imbue HITP and Catalyst principles in all staff and structures in their schools
Teacher	aware of the need for HITP to improve student outcomes	believe in the benefits of Catalyst and want to change their practice	understand the Catalyst approach to reading (as a component of the approach to T&L)	equipped as explicit, high impact teachers who implement an evidence- based approach in every	build fidelity of practice over time by increasing precision, more often in more

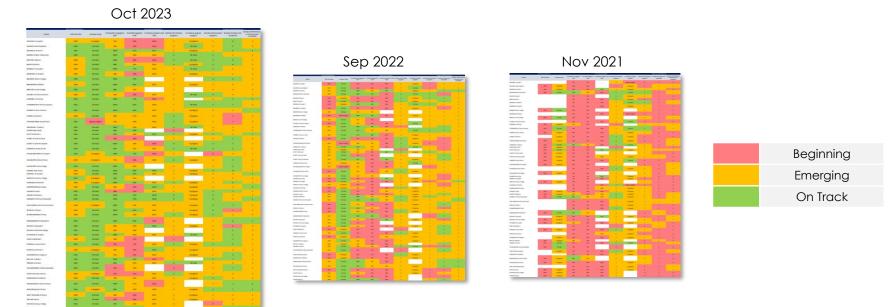




lessons

lesson

Schools across the system are increasingly progressing in their Catalyst journey



Overall system improvement and individual school progress – implementation heat maps (DAE Phase 3 Report)





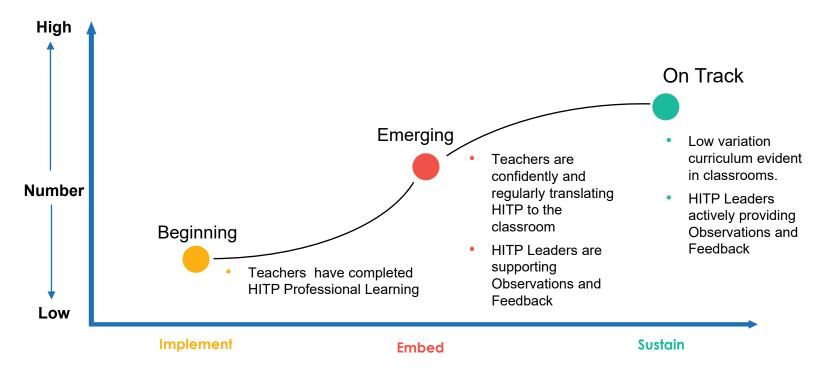
Monitoring efforts are targeted towards addressing gaps and gathering insights

Key areas of focus Teacher self-Systematised case assessment survey management processes Program implementation, including rate of progress and uptake School leader and teacher engagement and efficacy Key Assessment monitoring schedule Implementation fidelity tools management process: ADKAR Early evidence of outcomes towards **Expert** Leveraging existing data and processes observations bold goals





While all schools have commenced the Catalyst journey, schools are at different points







Catalyst Report Card

PEDAGOGY



Over 1,200 teachers

trained in High Impact Teaching Practice



400+ teachers

trained in evidence-based, whole class literacy instruction



90%+ schools

using evidence-based literacy intervention across K-12

CURRICULUM



Full scope

and sequences for K-6 English and Mathematics developed



75%+ schools

implementing Spelling Mastery



200+ teachers

trained in The Writing Revolution

ASSESSMENT



Assessment schedule

across all participating schools to inform approach



Evidence-based assessments

e.g. DIBELS, Phonics Screening Check

SYSTEM ENABLERS

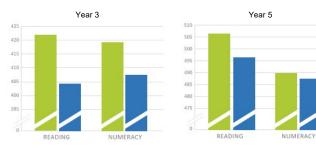


100%

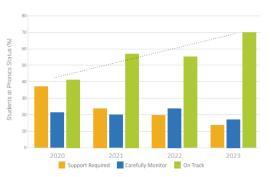
schools engaged in Leadership Sessions and Annual Improvement Planning Meetings



NAPLAN Comparative Performance 2023 (CECG aside National Average)



Phonics Screening Check Results 2020 to 2023

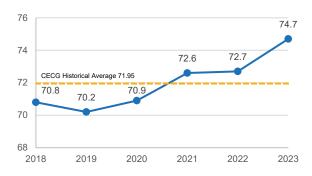


Strong evidence emerging on student achievement

Dynamic Indicators of Basic Early Literacy Skills (DIBELS)



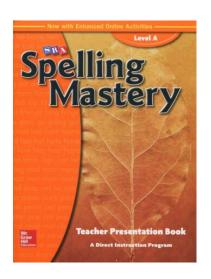
Average ATAR, Aggregate of All 9 ACT and NSW Colleges

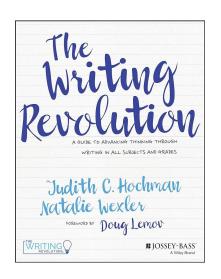






Make the switch to effective teaching practices grounded in research











Implementing & embedding HITP- an iterative approach

Providing support to staff instructional coaching sessions with targeted feedback & observation



Watch the video carefully and note below:

Identify what's going well (i.e. positive, specific feedback to students and teacher)

- Setting behaviour expectations (chant) and reinforcing these expectations throughout the lesson
- Use of gestures to reinforce the concept of 'add' and a 'number line'.
- Clear, concise, child-friendly definitions (add means put together)
- Choral responses.
- Lots of positive reinforcement.
- Using 'time to shine' when you noticed students were not participating
- Great pace for a Kindergarten EDI lesson. Students were allowed think ume perore responding and demonstrating the actions.
- Lots of opportunities to pair-share and pick non-volunteers.

Describe the student performance problem

- Some students are not participating during partner talk when saying the learning intention and when sharing with a partner
- Active participation
- Some students are confused about who their partners are

Describe how student performance should look

- All students are clear about who their partner is when sharing.
- All students actively engaged you targeted students when you noticed they were not
 participating or showing active engagement.
- Students alternate between who is talking first and second.

Describe the needed change in the teacher behaviour

- Set up routines for students when they pair/share using actions and/or visuals.

Whole-school approach to codifying practice: alignment of agreed evidence-based practices guided

alignment of agreed evidence-based practices guided by the Catalyst project



	l	1	
Teacher	Classroom Environment and Practices	Curriculum	Resourcing
We engage in bell-to-bell teaching, limiting wasted time.	Our classrooms are set up to maximise attentional control (desk positioning, fill from the front).	Our English and Mathematics curriculum is based on the CECG Low Variation Curriculum and lessons are designed using the Hollingsworth & Ybarra model.	All new staff will be engaged in an "onboarding" process.
We use polite greetings, address each other by name and students transition between spaces according to clear and well-established behaviour norms.	Each class engages in at least four Daily Reviews each week, in both English and Mathematics.	Daily Reviews follow the Recite, Recall, Apply model. Duration of DR depends on grade and timetable allocation.	All staff engage in a review of purposeful practice of teaching strategies and norms at the start of each year.
Our teachers have well-established cues or engagement norms to	Daily Reviews and ED lessons are delivered to the whole class (Tier 1)	Each class engages in Shared Reading according to the St	Our teachers engage in regular coaching according to the St Vincent's coaching
start each teaching session and redirect learning.	without the use of personal devices.	Vincent's model (Yr 3-6) and InitialLit Storybooks (F-2).	model.
Both DR and ED lessons: - are based on active participation - have built in checks for understanding, - include corrective feedback and - include differentiation.	Each class engages in Explicit Direct Instruction lessons in English and Maths each week, according to the LVC.	F - 1 engage in a Direct Instruction Phonemic Awareness program four times per week.	Progress Monitoring in DIBELS and Spelling Mastery assessment results are recorded and monitored closely.
Teachers follow the TAPPLE acronym as a guide for CFU.	Each class engages in Fluency Reading daily.	Our teachers use St Vincent's programming and planning templates for programming in all subject areas.	Classroom assessment data is administered and recorded according to the St Vincent's assessment schedule.



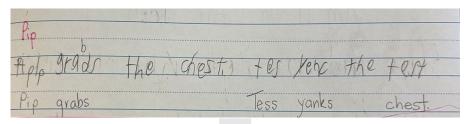


Positive Impact of Intervention

Measure	Period			
Measure	Beg	Mid	End	
NWF-CLS	64	63	119	
NWF-WRC	16	20	35	
WRF	36	47	62	
ORF-Words Correct	62	64	113	
ORF-Errors	25	4	2	
ORF-Accuracy	71%	94%	98%	
Maze-Correct	6	10	24	
Maze-Incorrect	4	2	1	
Maze-Adjusted	4	9	23.5	
Composite	322	365	448	

DIBELS results for Tom (Yr 3).

Dictation pre and post intervention.







Catalyst

Bring the SWAT team

- Tiers 1, 2 & 3: codifying practices and alignment between the tiers
- Early identification and timely intervention
- Adjustment when progress is not met
 - Frequency
 - Intensity
 - Duration

Reading Intervention Procedures

Purpose

To determine the effectiveness of the Reading Program and make any necessary adjustments or additions to Tier One instruction.

To define the procedures governing Tier 2 and Tier 3 intervention.

Essential Mindsets:

- · Promote equitable outcomes
- · Focus on what we can control within our school
- Stay engaged
- All voices are heard
- · Celebrate success and growth
- · Teacher collective efficacy.

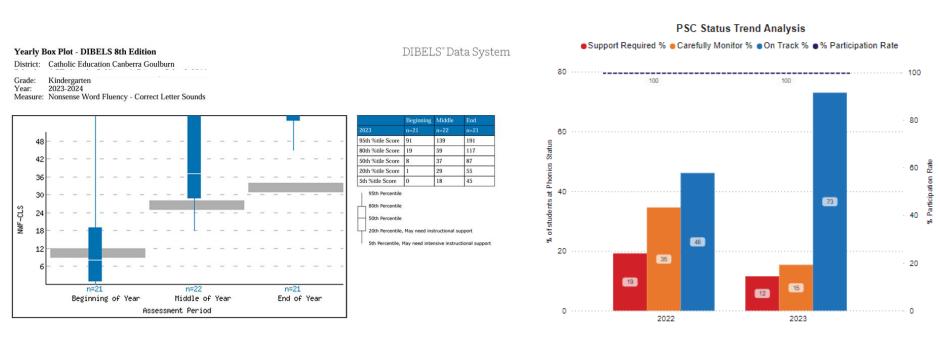
School Wide Assessment Team (SWAT):

- SWAT meets regularly across the year.
- SWAT is made up of Principal, Assistant Principal, Assessment Lead, Literacy Lead, Classroom Support Teacher, and any teachers who volunteer to be a part of the team.
 Ideally, one representative teacher from each Stage would be on the team.
- SWAT discusses specific students' data as well as cohort data and progress to
 collaboratively make decisions relating to instruction, intervention, and next steps.
 Recommendations by the SWAT team are then fed back to the teacher for
 implementation into Tier 1 instruction.
- SWAT uses the <u>Data Review and Planning Worksheet</u> to prepare for SWAT meeting and record decision making.
- All intervention programs, activities and group sessions are based on Science of Learning Principles and is Explicit Direct Instruction in nature.

Data Driven Decision Making

- A recommendation can be made to the SWAT to graduate a student from Tier 3 to Tier 2 intervention, or Tier 2 intervention to Tier 1 whole class instruction. This recommendation can be made by the Class Support Teacher, the classroom teacher or another teacher who has worked closely with the student. Recommendations needs to be accompanied by a Class Support Referral and will be tabled at the next SWAT meeting: https://drive.google.com/drive/search?q=Referral%20for%20learning%20support\
- A student will be considered for graduation from Tier 2 intervention when they reach
 an achievement level of the 40th percentile in DIBELS testing. The 40th percentile in DIBELS
 testing is considered the minimum goal for exiting intervention.
- A decision to graduate the student from tier 2 intervention needs to be supported by progress monitoring assessments such as WARN, WARP and WARL.

Positive impact of Intervention in Early Years



Yearly Box Plot – DIBELS 8th Ed.
Non-sense Word Fluency assessment - Kindergarten results
2023-2024

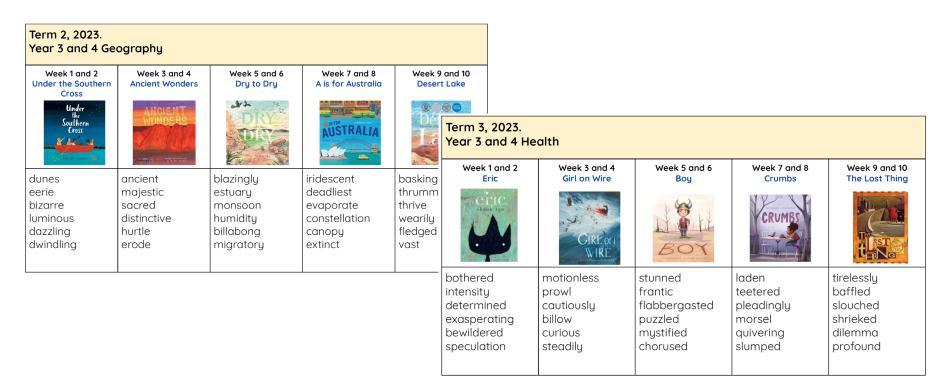
Year 1 Phonics Screening Check

Program/planning documents for reading

Week	First Read	Second Read	Third Session	Fourth Session: Writing 2 sentence-level OR 1 text-level writing tasks
Week 21 & 22 Name of text: Eric - Shaun Tan Shaun tan Shaun tan Shaun tan	Vocabulary Words (3-6 words): bothered b/o/th/er/ed both-ered Adjective (positive) Meaning: annoyed or worried about something. Sentence: The man was bothered when his friends were using their phones instead of talking to him. Word family: bother, bothers, bothered, bothering, bothersome. Macrostructure Narrative text. Recount from the perspective of the narrator. Phrases: - It's a cultural thing (habits, traditions and beliefs of a society). - Foreign exchange student (A high school or university student who travels to foreign countries to live and study for a period of time) Fountain of interesting facts and opinions (figurative language: fountain = large amount).	Pause Points & Questions: 1. Page 3-4 - What do you think the author wants us to know? What does the author mean by the phrase 'it's a cultural thing'? Read/Write/Discuss/Revise Cycle: Do you think Eric had a wonderful time with the family? Why/why not? Read-Write-Discuss-Revise Cycl Full Cycle Read 10 -15 minutes Write 5 - 10 minutes Discuss 5 - 10 minutes Revise 5 minutes	Vocabulary Revision: bothered Similar to: annoyed, agitated, troubled, distressed. Different from: calm, happy, relaxed, untroubled. Sentence: He was so polite that i'm not sure if he would have told us if something bothered him. Morphology: bother+ed <-ed> past tense Etymology: Anglo-Saxon. Meaning: to bewilder, confuse.	Sentence Level: Sentence Expansion - Because, But, So: Because - tells us why something has happened. Secretly I had been looking forward to having a foreign visitor because I had so many things to show him. But - Indicates a change of direction. We found it difficult to pronounce Eric's name correctly, but he didn't mind. So - joins clauses that have similar ideas. We started storing food in the kitchen and things in other cupboards, so we wouldn't disturb him. Students expand the sentence using the conjunctions because, but, so. 1. The family were excited to have a foreign exchange student because 2. The family were excited to have a foreign exchange student, but 3. The family were excited to have a foreign exchange student, but 3. The family were excited to have a foreign exchange student, so



High quality texts that align with the curriculum







Explicit vocabulary instruction and application to writing

Sample daily lessons



determined determined

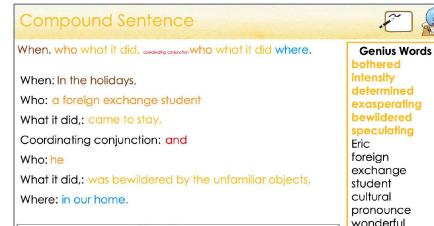


Adjective (positive)

Meaning: wanting to do something very much and not letting anything or anyone stop you.

Miss Cooper was so determined to secure Taylor Swift tickets for her birthday and went to great lengths to ensure she succeeded.

Word Family: determine determined determining determination



Prepositions to begin prepositional phrases:

at, in, on, by, from, until, since, during, for, within





pantry

Creating high quality curriculum resources

Over 20 CECG teachers involved

36K visits to the CECG Years 3-6 English materials in the last month 330K visits to the CECG K-6 Maths resources in the last 12 months

75k Australian teachers

have accessed resources through CECG Catalyst project on the Ochre website Teachers report saving up to 6 hours per week Over 90% of users agree resources are supporting student progress









Access Ochre website for resources and instructional materials

Our long-term approach to Teaching & Learning



Develop & Implement

2021 - 2023

Transition & Embed

2024 - 2025

Sustain Future State

2026 →





Catalyst

2024 - 2025

CORE SYSTEM SUPPORT





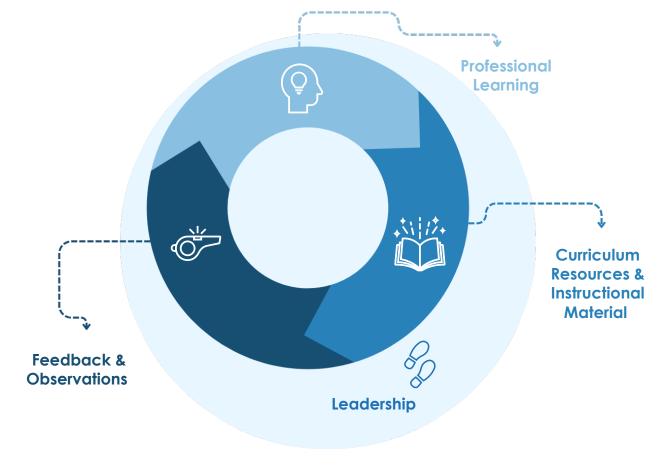
Teaching & Learning team



Content & Material

⊗-⊗ Governand

Governance & Funding







Key considerations for change



Clear vision and purpose



Based on evidence



Connect with experts



Lead and align



Enablers to drive change



Empower Principals



Early adopters are critical



Impactful Professional Learning









Embed effective monitoring processes



Collaborate, share and network



Celebrate success

Catalyst



What we're hearing from teachers

The use of daily reviews and active participation have led to significant increases in the content retention of my students.

Students seem to be responding better since I introduced regular reviews.

I have been blown away by the increase in student ability.

We are extremely grateful for the Maths resources that CE are providing and it is an enormous reduction in excessive workload

A greater level of attention and participation has led to more effective retrieval of concepts and skills needed. I've also noticed increased student confidence in skills.







What we're hearing from leaders

HITP has enthused teachers and given them strategies to use to address engagement and learning in the classroom.

It supports us as we mentor early career teachers. Consistency between teachers helps students to know what and how to do learning better.

HITP has provided an evidenced based pedagogy and common language that can be used across faculty and subject areas in the classroom.

It has been successful across all year levels and types of learners. The data has shown that it has been particularly effective with students who are struggling.







Momentum for evidence-based practice is building across the country

Advancing educational opportunities

SCHALD STALLA

Reading Science in Schoon









Australian

Education



కింది Supported by National and International కింది Science of Learning Expertise



E.D. Hirsch Jr



Tom Sherrington



Dr Lorraine Hammond



Prof Pamela Snow



Ollie Lovell



Dr Jennifer Buckingham



Dr Jenny Donovan



Natalie Wexler



Dr Tim McDonald



Dr Ben Jensen



Ingrid Sealey



Toni Hatten-Roberts



Michael Roberts



Reid Smith



Dr Nathaniel Swain



Elena Douglas



Simmone Pogorzelski



Prof Tanya Serry

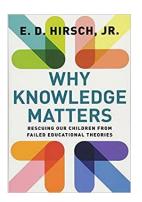


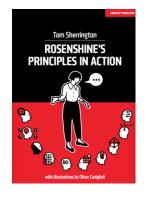
Brooke Wardana

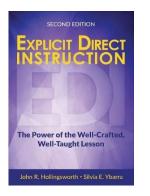


Jordan O'Sullivan

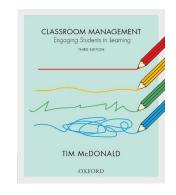
Books that have guided our journey

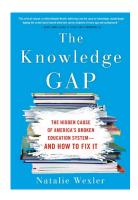




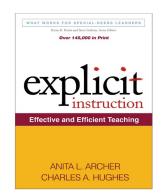


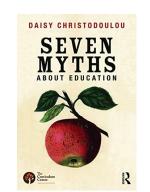


















Ollie Lovell

Filling the Pail Greg Ashman







From Catalyst

Season 2 streaming now!



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Transforming lives through learning



