

CHANGING THE WORLD ONE WORD AT A TIME.

Rose Garofano - Australia Asheeka Nand - Australia

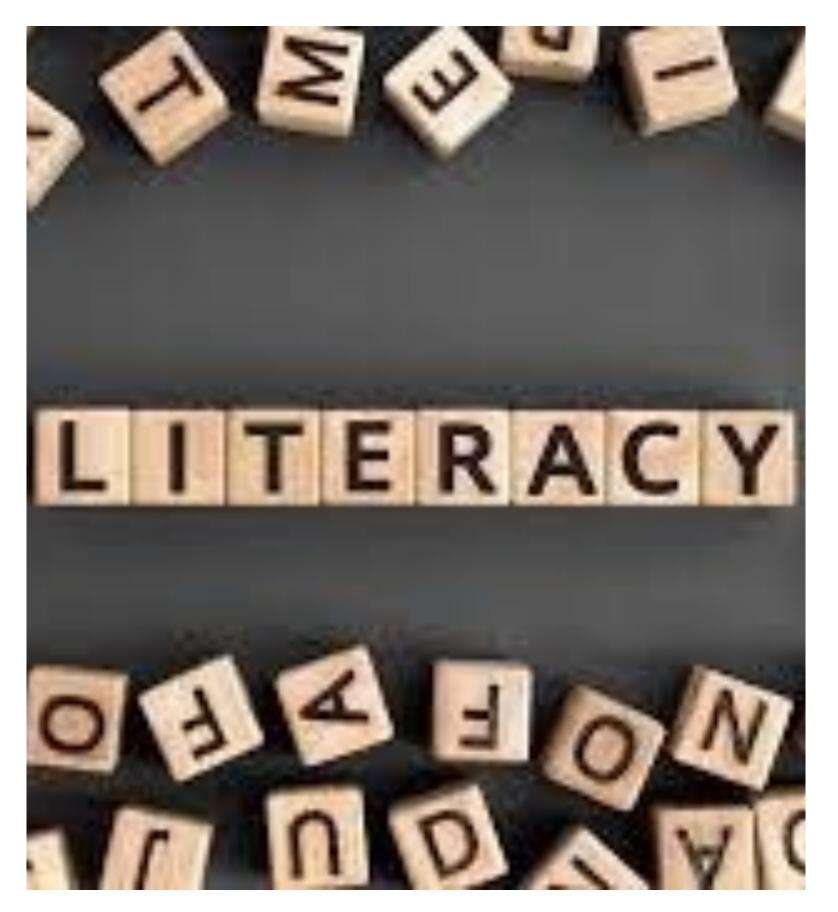
The Future of Education Conference Florence, 2023



INTRODUCTION

Historically ...

The development of literacy skills among students has played a crucial role in shaping societies, expanding knowledge, and promoting social mobility. Over the past 30 years, literacy development in education systems has undergone significant evolution and transformation.



LITERACY INSTRUCTION

The teaching of literacy being has become more student-centred, interactive, and technology driven. These more advanced approaches aim to foster critical thinking, creativity, and digital literacy skills.

However, the teaching of vocabulary, has had less intensive change and consequently, remains a barrier for adolescents to access effective instruction of reading and writing.



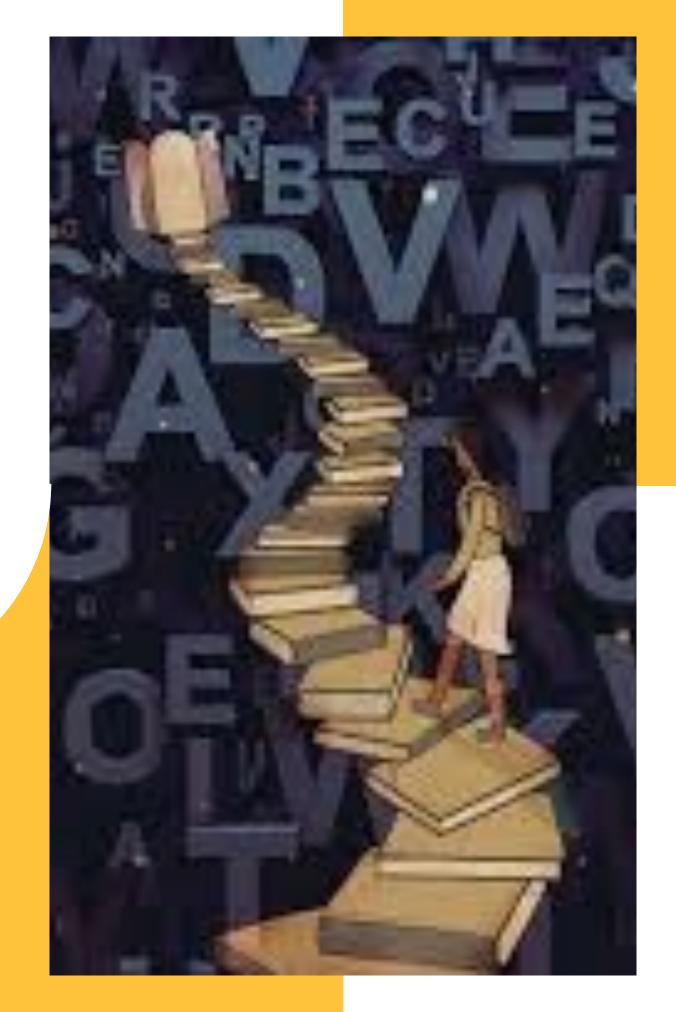
In the high school setting, literacy approaches traditionally focus on the development of reading comprehension and writing. These approaches aim to equip students with the fundamental abilities necessary for academic success and future endeavours.

The initial literacy approaches commonly employed in the high school environment on improving student's reading comprehension skills were developed through exposure to a variety of literary genres, including fiction, nonfiction, poetry, and plays, usually situated within the English or literature studies classroom.



Positioning literacy as a whole-school responsibility in a school policy is responsive to the need to give close consideration to the fostering of student's literacy skills and attitudes across learning areas (Merga, 2023). In Australia, literacy beyond the subject of English is an Australian curricular expectation (Merga, 2023).

LITERACY INSTRUCTION



VOCABULARY INSTRUCTION

Briefly elaborate on what you want to discuss.

Historically, a strong link exists between vocabulary knowledge and reading comprehension, dating back to factor-analytic studies (Carroll, 1971; Davis, 1944; Singer, 1965; Spearritt, 1972). This link created the illusion that problems in comprehension could be addressed by promoting learning word meanings, mostly in the form of definitions (Beck & McKeown, 1991).

ADULT LITERACY

Briefly elaborate on what you want to discuss.



The Survey of Adult Skills, a product of the OECD Programme for the International Assessment of Adult Competencies (PIAAC), defines literacy as the ability to understand, evaluate, use and engage with written texts to participate in society, achieve one's goals, and develop one's knowledge and potential.

PIAAC in 2012 There is a relatively reported that around large gap between the 15.5% of adults aged most and least proficient adults in 16 to 65 were assessed as having literacy and numeracy, low literacy skills: as was the case among they scored at or 15-year-olds in PISA (OECD, 2017). For below Level 1 on the example, 46.9 per cent scale that measures literacy proficiency. of Tasmanian women have the lowest levels of functional literacy in all of Australia (ABS, 2013).

EXPLCIT VOCABULARY INSTRUCTION

While comprehension is complex, involving the coordination of multiple cognitive processes and knowledge, the lynchpin of deep comprehension is word knowledge (Perfetti & Stafura, 2014). Word knowledge and reading comprehension are intimately linked (e.g., Adlof, Catts, & Little, 2006; Cromley & Azevedo, 2007; Tannenbaum, Torgesen, & Wagner, 2006) as abundant high-quality lexical representations characterize skilled readers relative to less skilled readers (Perfetti, 2007).





TIER VOCABULARY

Beck & McKeown

The explicit teaching of vocabulary by identifying high frequency, academic, technical, and low frequency categories. Academic words are words common across domains of academic texts, as exemplified by Coxhead's (2000) AWL.

(Beck & McKeown, 1985; Beck, McKeown, & Kucan, 2002, 2013).



Tier 3 - Technical Words

Words that relate to a specific topic or subject area but not common beyond it.

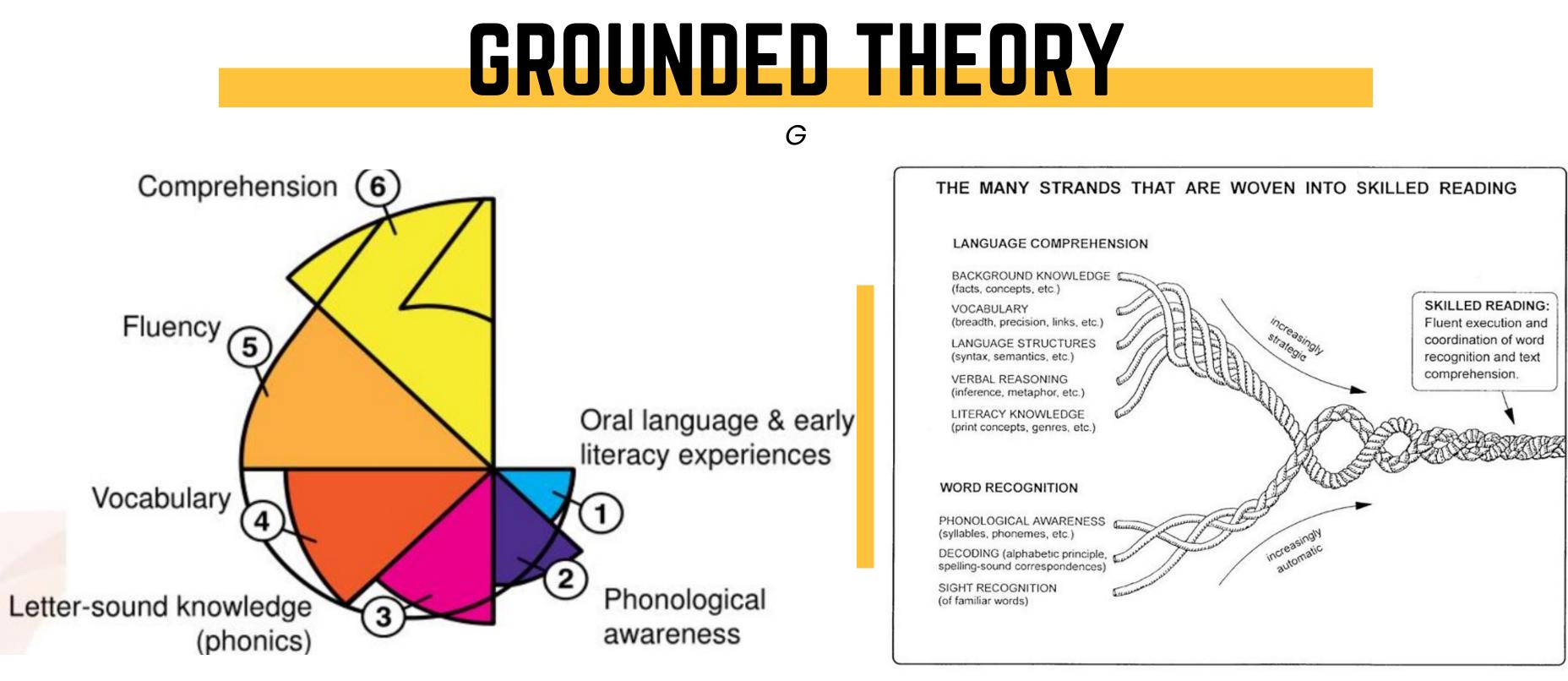
Tier 2 - Academic Words

General words that appear across domains and that characterize text rather than conversational language

Tier 1 -

Conversational words

Every day words that don't require explicit teaching because students acquire them through their daily interactions.



The Big Six in Reading - Kilpatrick 2015

Scarborough's Reading Rope 2001

THE GAP

There is a distinct need for greater teacher collaboration across learning areas more frequently to breakdown perceived barriers of insecurity through the establishment of structured professional learning communities to facilitate dialogue about literacy challenges.



Academic Project



What is **NAPLAN?**

What is the Higher School **Certificate?**

The National Assessment Program – Literacy and Numeracy (NAPLAN) is an **annual** national assessment for all students in Years 3, 5, 7, and 9, and is the only nationwide assessment that all Australian children undertake.

It's a **measure** to see whether or not young Australians are developing the literacy and numeracy skills that provide the critical foundation for other learning, and for their productive and rewarding participation in the community.

All government and non-government education authorities have contributed to the development of NAPLAN materials.

The Higher School Certificate (HSC) is the **highest** awarded to NSW students who have satisfactorily qualifications, vocational training or employment.

educational award in New South Wales schools. It is completed Years 11 and 12 at secondary school. To be eligible, students must meet HSC course requirements and sit for the statewide HSC examinations. The HSC is an internationally recognised credential that provides a strong foundation for students wishing to pursue tertiary



THE PROBLEM

Literacy across all stages and KLA

Gap between NAPLAN results and HSC results

Adaptive testing and access to higher band questions

Other like schools vs our NAPLAN results à Not competitive

Inconsistency across KLA



DATA



YEAR 5 WRITING

Average NAPLAN Score - School, SSSG and State

/ weitage i w		5611001, 5550	and state			
Calendar Year	Avg Score School	Avg Score SSSG	Avg Score State	No of Students School	No of Students SSSG	No of Students State
2013	489.2	506.41	484.84	81	2814	89641
2014	498.4	497.36	474.57	85	3303	90998
2015	502.2	504.19	484.12	79	2739	91789
2016	489.2	499.87	477.94	82	3012	95600
2017	482.7	504.19	478.42	83	3029	99293
2018	479.0	496.07	471.26	83	3318	101521
2019	492.0	497.01	480.15	84	3073	100949
2021	486.1	508.23	489.11	112	3594	101883
2022	507.6	524.18	493.07	111	3446	100209
Total	492.1	504.05	481.54	800	97092	870477

Add a main point

Add a main point



Add a main point

YEAR 7 WRITING

Average NAPLAN Score - School, SSSG and State						
Calendar Year	Avg Score School	Avg Score SSSG	Avg Score State	No of Students School	No of Students SSSG	No of Students State
2013	536.7	548.12	517.62	202	4889	89753
2014	545.2	545.80	513.23	202	4727	88628
2015	525.9	545.86	512.10	154	4377	89222
2016	540.6	545.67	515.77	190	4979	90643
2017	537.2	549.33	517.06	185	4961	91611
2018	534.7	543.61	515.43	203	5253	95141
2019	531.6	543.50	519.81	219	5555	98640
2021	540.3	559.48	532.25	227	5601	99261
2022	555.3	564.93	540.28	231	5653	97015
Total	539.2	550.23	520.88	1813	98878	839421

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Total	539.2	550.23	520.88	1813	98878	839421

Add a main point

Add a main point



Add a main point

YEAR 9 WRITING

Average NADLAN Score - School SSSC and State

Average NAPLAN Score - School, SSSG and State						
Calendar Year	Avg Score School	Avg Score SSSG	Avg Score State	No of Students School	No of Students SSSG	No of Students State
2013	589.5	590.49	555.09	154	4641	87167
2014	584.5	587.13	549.51	175	4702	87328
2015	568.3	584.61	545.96	192	4368	87515
2016	579.1	585.31	547.39	194	4785	86388
2017	576.3	599.34	559.50	165	4731	88138
2018	601.3	587.50	554.76	188	4884	88761
2019	568.4	581.61	555.62	191	5081	88990
2021	565.8	588.77	559.98	225	5420	94504
2022	576.5	595.81	569.82	229	5477	93190
Total	578.3	589.48	555.60	1712	95272	801602

Add a main point

Add a main point



Add a main point

1	Audience	0-6	The writer's capacity to orient, engage an
2	Text structure	0-4	The organisation of narrative features in and resolution into an appropriate and e
3	Ideas	0-5	The creation, selection and crafting of ic
4	Character and setting	0-4	Character: the portrayal and development Setting: the development of a sense of pl
5	Vocabulary	0-5	The range and precision of language cho
6	Cohesion	0-4	The control of multiple threads and relation the use of referring words, substitut
7	Paragraphs	0-2	The segmenting of text into paragraphs
8	Sentence structure	0-6	The production of grammatically correct
9	Punctuation	0-5	The use of correct and appropriate punc
10	Spelling	0-6	The accuracy of spelling and the difficul

and affect the reader

ncluding orientation, complication effective text structure

ideas for a narrative

ent of character blace, time and atmosphere

oices

lationships over the whole text, achieved throug itions, word associations and text connectives

that assists the reader to negotiate the narrative

ct, structurally sound and meaningful sentences

ctuation to aid reading of the text

Ilty of the words used

WHO?

Year 8





PersonalDevelopement,HealthandPhysicalEducation

GEOGRAPHY



SCIENCE

The number of road deaths per 100,000 in NSW has dropped from 28.9 per 100, population in 1970 to 4.4 in 2019. "Explain why the number of road deaths have reduced in NSW over the past 5 decades?" 1970 3 MAIN THEGE MAIN FACTORS 13 HE MADRAL GIRGNGER AND NORE VEADLE MATERIALS RATHER FAUND WB BE MADE ATTES AND MK>RE 15

PDHPE85 Words in total

Tier 1 = 72 (85%) Tier 2 = 10 (11%) Tier 3 = 3 (4%)

Target: In written work 60% of words should be made up of Tier 2 and Tier 3.

For the animal you have chosen for your Threatened Species assessment task answer the following question: "Explain the role your chosen animal has in its natural environment?" 143 т 3 he Sumatian on a smal TIGER located a tiger 15 off Indonesia Island Sumatra. The tiger is one the Apex ot predator mind the With this in the tiger a key role to its natural environment in many has Ways. part IOT Being one the top predortors of Sumatran tiger drastically helps the biodiversity health and of ecosystem. the The go (extint) not only with tiger Would T2 (dec increase all Will and the plants and other (ceirtain) decrease and tiger animals What the tigers eat rular single out. role of the figher is held and to chain in-tack, the figer has a more important +0001 than you actually think. With 400-600 role only the wild, these horrific things that happen becoming are more a relatity 10 Save these ot endaged we much take action now animals

Science 143 Words in total

Tier 1 = 118 (82%) Tier 2 = 20 (14%) Tier 3 = 5 (4%)

Target:

In written work 60% of words should be made up of Tier 2 and Tier 3.

Place and Liveability Writing Task

Explain why people's opinions of a place's liveability might be different and change over time? Peoples opinions of places and their livibility has changed overtime and plays a key role in where people decide to stay and live. There are many different reasons why peoples opinions change and they are as follows.

Copulation / Job opportunities. With many people tinding. hard to get a job nowerdays, people would find places with many people and more job appurtunites More inible than a country. People we are talking about would be agaled around 18-40 who might be looking for their first job or new job. latrual disasters/ Safe place. Many places ground the world experience deadly and life threating isasters which makes them flea from their country,

for example syria. With saying that japan has loads of natrual disasters but many people. live their due to the Job oppurtivities and anvsment.

The reason peoples opions has changed over time is. most because of personal issues and this could be the ones we started or many different ones. What we can say about peoples opions on Wibility is that everyone has different opinions no matter the time pake, and scencio

Target: Tier 3.

Geography – Sample 1 182 Words in total

Tier 1 = 118 (82%)Tier 2 = 20 (14%)Tier 3 = 5 (4%)

In written work 60% of words should be made up of Tier 2 and

ASSIGNING WORDS TO TIERS IS CHALLENGING - EVEN FOR THE **EXPERT!**

Tuesday, 23 May 2023



Nand, Asheeka (St Augustine's College - Sydney) 23/05 9:05 pm The Core Vocabulary: The Foundation of Proficient Comprehension "Assigning words to tiers can be hard, however, even for expert."

We are not alone in this!

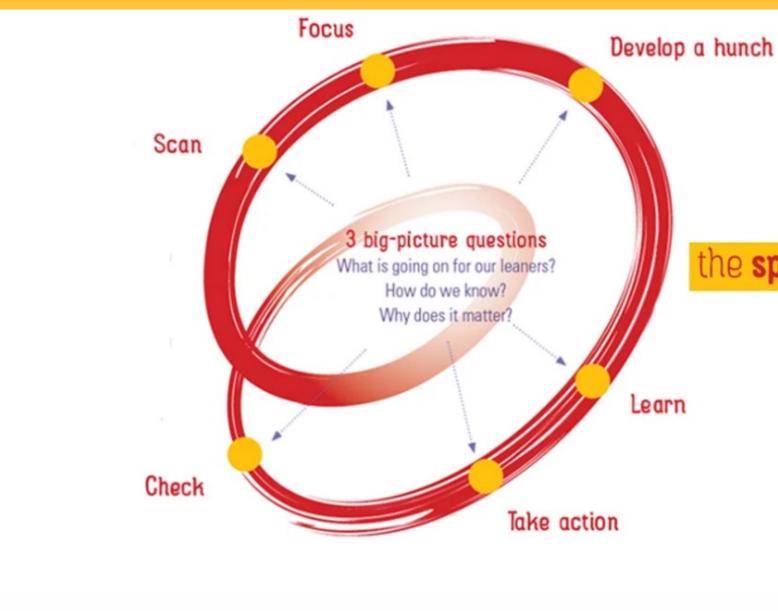
The Core Vocabulary: The Foundation of Proficient Comprehension - Hiebert - 2020 - The Reading Teacher - Wiley Online Library

https://ila.onlinelibrary.wiley.com/doi/full/10.1002/trtr.1894

See less



STRATEGY - ACTION RESEARCH



The Spiral Playbook. <u>C21 Canada</u>. All rights reserved.

the spiral of inquiry

PROCESS

Term 2 - Action Research Foundation Strategy

- •Step 1 Select and upskill your team Members of Pilot
- •Step 2 Identify the data point (pre-test Week 2: categorising tiers of vocabulary)
- •Step 3 Implement the strategy (explicit teaching) for a period of time
- •Step 4 Check in weekly with your champions (can be an online check in or a passing conversation)
- •Step 5 Post -test (Week 7-8) track growth (categorising tiers of vocabulary)
- Step 6 Focus group feedback collect feedback from students/team
- Step 7 Prepare for second cycle

PROCESS

Action Research Foundation Strategy

Term 3 - Pilot program

 Second iteration of pilot - This will allow the team to make adjustments and implement adjustments.

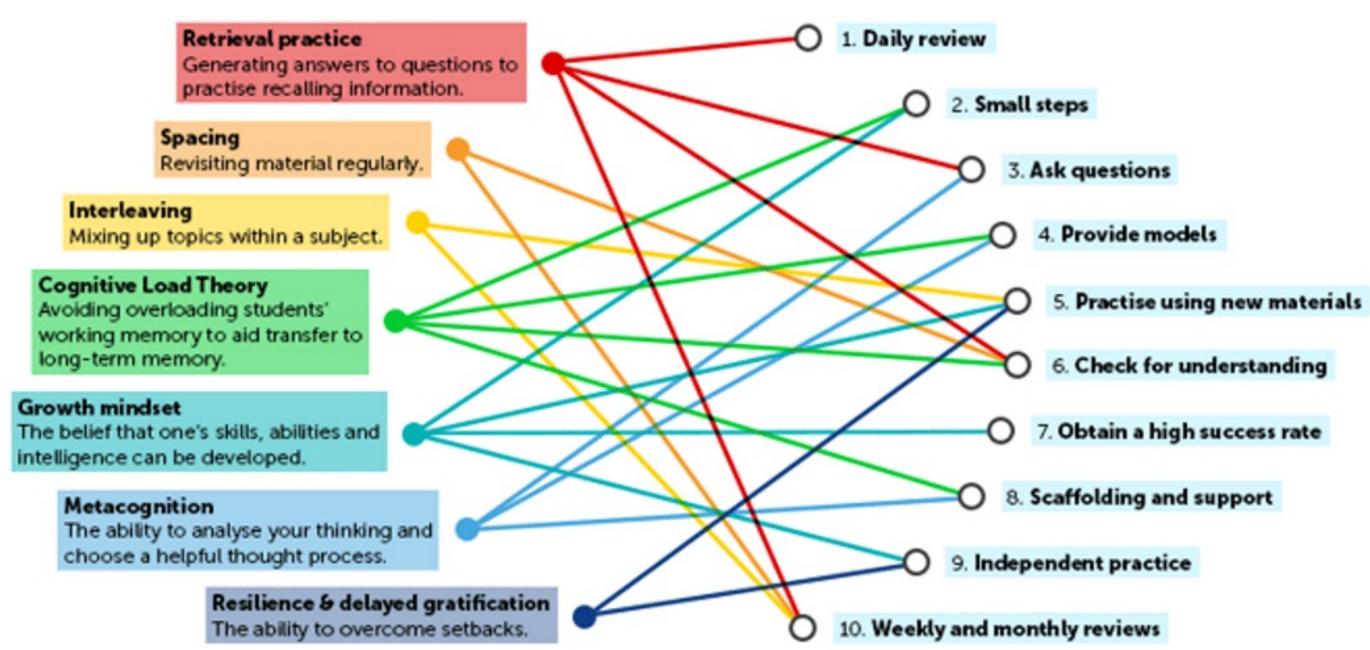
•If none are required, opt to identify a new set of champions in order to run the pilot a second time.

Term 4

Reflection, research and preparation for program implementation in 2024.

The cognitive science behind Rosenshine's Principles of Instruction

by @Inner_Drive | innerdrive.co.uk



Learning Intention: Describe/explain/discuss XXXX so that we can XXXX (application).

Describe the anatomy of the kidneys so that we can understand the importance of salt balance in the body.

Review of previous learning

Concentration gradients Osmosis Diffusion

Spaced Practice

Quick draw – dialysis tubing experiment What do students need to learn? (content/values/skills strands)

Module 6 - Kidneys

Vocabulary and etymology

Passive and active transport Nephron Concentration gradient

Key questions/Misconceptions

The body is a donut – but does water go straight to our bladder? Salt is bad for you – but is it?

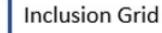
Support

Support in 'starting' for two S's

Extend

Sasha – what could go wrong and how could you fix it?

Seating Plan



Scaffolding



Diffusion, osmosis, concentration, dilute, solute, solvent, ions, filtrate

Starter – <u>blooket</u> from previous lesson (keep it to 4 mins)

Teacher modelling and worked/faded examples

Animation of filtration and reabsorption – stopping at each piece.

Independent Practice

Student to draw and annotate a diagram of the Kidney. Can use the animation.









QUESTIONS

Rose Garofano

Do not go gentle into that good night, Rage, rage, against the dying of the light.

Dylan Thomas



our fav quote



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