Parish Church of England Primary School St James Church of England Primary School





Teaching and

<u>Learning Toolkit</u>

2022/2023

British Values Curriculum Policy Statement:

Parish Church of England Primary and St James Church of England Primary School are schools built on Christian beliefs and values. However, we recognise that our children are part of the wider British society, which is multi-cultural and multi-faith in its composition.

We also understand that we have a crucial role to play in ensuring that our children become valuable and fully rounded members of society, who treat others with respect and tolerance and are fully prepared for life in modern Britain.

Where it is appropriate and pertinent, we aim to teach, reinforce and develop our inherent British values both within our school practices (please refer to our British Values Statement) and within our curriculum coverage.

This statement outlines the key British values we actively promote within the curriculum.

- Democracy
- Mutual Respect
- Individual Liberty
- Tolerance for those of different faiths and beliefs
- The Rule of Law

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Introduction to Teaching and Learning:

At both Parish Church of England Primary School and St James Church of England Primary School, we ensure that all pupils reach their full potential and gain the knowledge and skills necessary to prepare them for the next stage of their education. This policy provides a toolkit of evidence-informed strategies and techniques that strive to ensure high-quality teaching and learning takes place in all classroom settings.

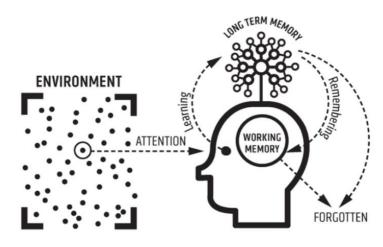
An underlying assumption is that across the partnership, before an educational professional can implement any research, the complexities of our individual school community (referred to as 'social capital' incorporating the innate factors of functioning social groups (Webb, 2008)), which are personal to our school and its local community) have been considered. This ensures that our staff are not just deploying 'what works' (Biesta, 2010) solely due to contextualised evidence-based results; instead adopting an 'evidence informed approach' (Brown and Zhang, 2016), whereby staff can utilise appropriate evidence in conjunction with practitioner autonomy to deploy the most effective teaching and learning strategies.

Described by Lekha Sharma (2020) as an 'art not a science', teaching can be defined as engagement with learners to enable their understanding and application of knowledge, concepts and processes. It includes the design, content selection, delivery and assessment of carefully sequenced material. Comparatively, learning can be identified as the activity or process of gaining this knowledge through appropriate study, practice or experience.

Before effective 'teaching and learning' can indeed take place, it is vital to note that careful consideration has been placed upon successful curriculum design, defined as how 'knowledge can be structured as a narrative over time.' Each individual subject's curriculum is planned and sequenced so that new knowledge and skills build on what has been taught previously and sequentially links to future learning. Subject leaders have ensured that the subject curriculum contains content which has been identified as most useful and that this content is taught in a logical progression.

With the end point of our curriculum, how all of our pupils are able to "know more and be able to do more" (Ofsted, 2019), our evolving teaching and learning toolkit provides an evidence-informed approach to ensure that this pre-determined knowledge becomes sticky and is effectively retained over time for all learners.

With the curriculum coherently structured, the teaching and learning process has been concisely illustrated by Cavigoli (2020). All staff are clear in their role to teach in a precise way which makes it possible for all pupils to achieve their full potential. Once attention is secure (with supporting information provided in our 'Positive Relationships and Behaviour' and 'Learning Environment' policies), successful learning can take place,



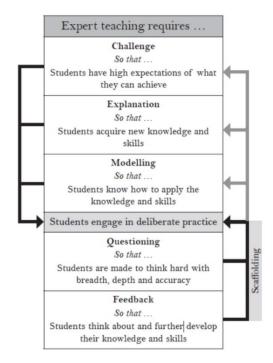
The Science of Working Memory (Cavigoli, 2020).

occurring when knowledge is well rehearsed and coherently linked to previously taught knowledge to develop a clear schema and be retained within the child's long-term memory. Our teachers know that they must ensure students efficiently acquire, rehearse, and connect background knowledge by providing effective instructional support to ensure the knowledge is remembered and not forgotten. Hence, our teaching and learning toolkit has been designed to support teachers to make decisions about how to improve the pupil's learning process and ensure that all children are successful in their learning.

Our Pedagogical Principles - The Theory:

01 DAILY REVIEW

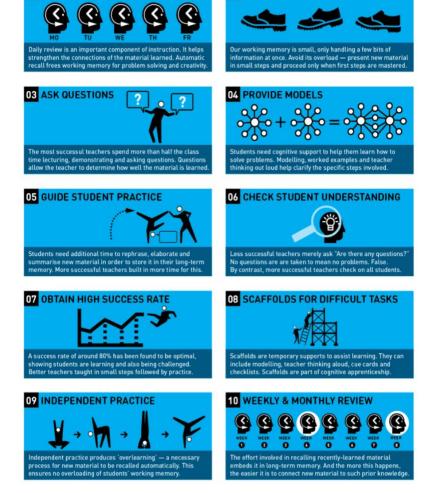
The content of our 'Teaching and Learning Toolkit' is underpinned by the seminal work of Barack Rosenshine (2010) and his ten principles of instruction. Defined by Tom Sherrington as the core factors that create effective teaching and learning, Rosenshine's research provides a triangulation between cognitive science, real-life classroom practice and practical cognitive supports. The research has made a significant contribution to knowledge of the effectiveness of certain methods of 'instruction', which is typically defined as 'the purposeful direction of the learning process'.



Allison and Tharby's (2015)

'Principles of Effective

Teaching and Learning'



Rosenshine's Principles of Instruction (2010).

Rosenshine's principles are also synonymous with Allison and Tharby's (2015) 'Principles of Effective Teaching and Learning', who also provide an illustrative cycle to succinctly summarise the teaching and learning process. By examining the evidence behind what makes great teaching, Allison and Tharby explore how to implement this in the classroom to make a difference to learning. They break successful teaching and learning down into six core principles (challenge, explanation, modelling, practice, feedback and questioning) and show how these can

develop teaching and learning not only in individual classrooms but across a whole school too; thus, combining robust evidence from a range of fields with the practical wisdom of experienced, effective classroom teachers.

Together, these two well established bodies of work create our <u>six core 'Pedagogical Principles'</u>: each principle being centrally driven by <u>Rosenshine's Principles of Instruction</u>.

- 1.) Challenge (Obtain High Success Rate and Provide Scaffolds for Difficult Tasks).
- 2.) Explanation (Present New Materials in Small Steps).
- 3.) Modelling (Provide Models and Scaffolds for Difficult Tasks).
- 4.) Questioning (Ask questions and check student understanding).
- 5.) Feedback (Daily Review and Weekly and Monthly Review).
- 6.) Practice (Guide Student Practise and Independent Practise).

Delivering Our Pedagogical Principles:

In order to successfully support our teaching staff in delivering our six pedagogical principles, different sources of evidence-based research have been incorporated into our Teaching and Learning Toolkit, with revisions made on a regular basis to reflect the needs of our school communities and wider updates to research.

1.) Our Core Strategies - Teaching WalkThrus:



Teaching Walk Thrus' (Sherrington and Caviglioli, 2020) is the core resource for our teachers to support their professional development. Each individual 'Teaching Walk Thru' (incrementally incorporated from books one, two and three as appropriate and utilising bespoke online resources) is a clear five-step guide to a concept or teaching strategy that has been informed by educational research. By making this expert pedagogy clear and concise, our teachers are able to develop their teaching and pupil's learning as part of their professional development.

In designing the content for the Teaching WalkThru, the professional development focusses upon strategies that commonly offer solutions to tackling students' learning problems. This is a purposeful approach to supporting both teaching and learning as each WalkThru is generic and context free. Therefore, each WalkThru is not a rigid checklist, instead a reference point for deliberate reflection. With this underlying professional autonomy, teachers are expected to ADAPT (Attempt, Develop, Adapt, Practise, Test) the WalkThrus so that they can be successfully utilised within their classroom. This is also supported through extensive informal and formal coaching cycles which take place across the year.

With WalkThrus providing the core strategies for all classroom practitioners, these are then enhanced by providing clear links to further supplementary evidence-based supporting research that is also easy to ADAPT (Attempt, Develop, Adapt, Practise, Test). This is vital to provide staff with additional up-to-date information and theory that they believe is pertinent to their individual classroom in addition to reflecting the ever-evolving nature of educational research.

2.) Examples of Supporting Strategies:

- Oracy Based Teaching and Learning Strategies: (Appendix I):

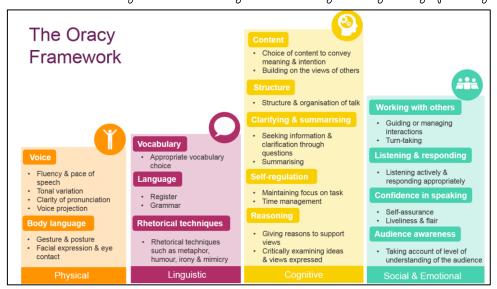


Across our partnership, we recognise how oracy is a powerful tool for learning; by teaching students to become more effective speakers and listeners we empower them to better understand themselves, each other and the world around them. It is also a route to social mobility, empowering all students, not just some, to find their voice to succeed in school and life; hence becoming an 'articulate learner' as one of our seven curriculum drivers.

The deliberate, explicit and systematic teaching of oracy throughout the curriculum supports our children to make progress in the four strands of oracy outlined in the Oracy Framework below and as a central tool in delivering our six pedagogical Teaching and Learning Principles. On our journey to becoming Voice 21 accredited schools, these oracy-based teaching and learning strategies significantly

support pupil learning with staff receiving extensive continued professional development within the area.

Further information is provided in Appendix I and can also be found within our 'Oracy Policy.'



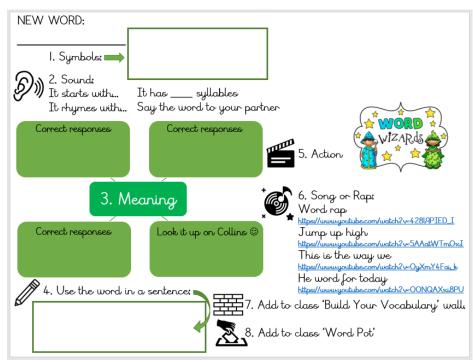
- Our Standardised Lesson Format - A 'Learning Quest' (Appendix 2):

In order to support staff in consistently delivering our six core 'Pedagogical Principles', a bespoke standardised lesson format has been created, defined as a 'Learning Quest.' Utilised widely across our curriculum (including within History, Geography, Science and R.E. lesson) the lesson structure provides staff with a structure to incorporate our six core 'Pedagogical Principles' within their lessons. Closely linked to 'Rosenshine's Principles of Instruction' – outlined in Appendix 2 - the well-embedded format allows staff to utilise appropriate evidence in conjunction with practitioner autonomy to deploy the most effective teaching and learning strategies for their learners. Supporting widespread evidence, the format is also proven to reduce cognitive overload for pupils due to its consistency in addition to supporting teacher workload across school.

- Teaching and Learning Strategies to Develop Vocabulary (Appendix 3):

Embedded across all aspects of our core six 'Pedagogical Principles' is the teaching and learning of carefully mapped-out vocabulary. Utilising Word Aware recommendations, we have developed a

structured whole school
approach to promote the
vocabulary development of all
children providing clear models,
scaffold and challenge that can
be utilised in all lessons.
Focussed on whole class
learning, the resources we have
created and adapted
particularly support
disadvantaged learners (including children with Special
Educational Needs and those
who speak English as an
additional language) in addition



to being proven to extend the word learning of all students. The consistent approach, outlined in Appendix 3 and utilizing the 'Word Wizard above', provides practical ideas that can be easily adapted by our highly trained staff to develop both spoken and written vocabulary and again support in the delivery of our six pedagogical principles.

- Education Endowment Foundation - Teaching and Learning Toolkiti

The Education Endowment Foundation's [EEF] 'Teaching and Learning Toolkit' is also regularly reviewed by the Senior Leadership Team in order to support and update our toolkit of teaching and learning approaches. Based upon real life data about what has happened when particular approaches have been used in other schools before and providing high quality information about what is likely to be beneficial based on existing evidence, the toolkit provides an evidence-informed decision about what may work best in our school before being incorporated into the toolkit for dissemination.

https://educationendowmentfoundation.org.uk/education-evidence/teaching-learning-toolkit

3.) Subject Leader and Champion Continued Professional Development:

Across both schools, significant investment in Subject Leader and Champion professional development allows for subject specific teaching and learning recommendations to be effectively implemented and regularly updated. Both Subject Champions and Leaders attend termly LDST subject networks, which discuss national updates and innovative teaching and learning approaches. Once they have attended this is then disseminated to all staff for implementation before being incorporated into teaching and learning toolkit by the curriculum lead if deemed appropriate. This commitment to the professional development across subject leadership drives innovation in teaching and learning.

All relevant teaching staff are also offered the opportunity to completed relevant National Professional Qualifications (NPQs) as a nationally recognised suite of qualifications for teachers and school leaders at all levels. In the last year, several staff have completed the NPQLT, NPQSL and NPQLL driving forward sustained innovation and understanding in teaching and learning approaches. Relevant research from the course is again incorporated into the 'Teaching and Learning Toolkit' ensuring research is pertinent and reflective of current best practice.

Our Six Principles of Effective Teaching and Learning:

Our six core principles are the central components to effective teaching and learning, allowing for professional autonomy amongst staff. Our highly trained staff are able to decipher how these principles are best implemented to present subject and lesson specific materials in the most effective way to meet the needs of all their students.

- 1.) Challenge (Obtain High Success Rate and Provide Scaffolds for Difficult Tasks).
- 2.) Explanation (Present New Materials in Small Steps).
- 3.) Modelling (Provide Models and Scaffolds for Difficult Tasks).
- 4.) Questioning (Ask questions and check student understanding).
- 5.) Feedback (Daily Review and Weekly and Monthly Review).
- 6.) Practice (Guide Student Practise and Independent Practise).

1.) <u>Challenge (Rosenshine's Principles of Instruction: Obtain High Success Rate and Provide Scaffolds for Difficult Tasks) -</u>

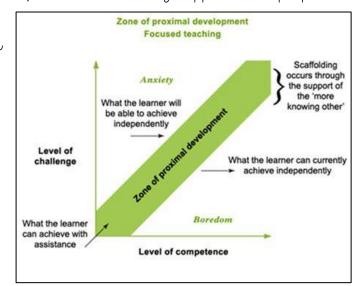
<u>Definition</u>:

Challenge is the provision of work which causes students to think deeply and engage in 'healthy struggle'. Effective challenge ensures that all pupils have high expectations of what they can achieve - ensuring that all pupils are able 'to know more and remember more' over a prolonged period of time.

Theory and Research:

Robert Coe, in his paper 'Improving Education' (2013) stated that "learning happens when people have

to think hard"; a claim that is widely supported across academic literature. Seminal research can be summarised with the intention of having to keep students in the challenge zone, or as Vygotsky (1978) describes within the 'zone of proximal development' (whereby students learn most and best when they are engaged in challenging work that they can complete with or without appropriate support.



The principle of challenge is also closely linked

to 'Growth Mindset Theory' (Dweck), relating to a state of mind whereby intelligence is malleable -

those who hold a 'growth mindset' believe that they can get better at something by dedicating time, effort and energy focussed upon the learning process and not the outcome.

Research by Rosenshine (2012) found that the optimal success rate for fostering student achievement appears to be approximately 80 percent. A success rate of 80 percent shows that students are learning the material, and it also shows that the students are sufficiently challenged.

Implications for Teaching and Learning at Parish and St James:

Throughout our curriculum, tasks are planned with Vygotsky's 'Zone of Proximal Development' in mind. Teachers aim to strike a clear balance between the independence of learners and level of scaffold provided. All children are taught to the top 'pitching it up' and our Quality First Teaching Toolkit (Appendix 4) is central to this with strategies for all learners alongside specific approaches those with Special Educational Need (SEND).

Challenge Strategies:

Strategy 1.1: Pitch It Up.

 $\underline{\text{Purpose:}}$ To ensure all pupils reach a certain standard of expectation.

Description:

High expectations for both behaviour and the standard of work produced are essential. To 'pitch it up', explore all the possible opportunities for taking a more challenging path and eliminate low level tasks that don't push students forward in their learning. This is a key focus of the curriculum design process on a whole school and unit-by-unit basis. The key is to aim for depth before speed.



Core WalkThrus Link: Pages 58-59.
Supporting Research:

https://www.youtube.com/watch?v=EjbL7zW-Wig&t-4s https://www.teachertoolkit.co.uk/2017/10/31/pygmalion-effect/



AIM FOR DEPTH BEFORE SPEED



EXPECT SOPHISTICATION, ACCURACY AND PRECISION



SELECT THE MORE DEMANDING CURRICULUM OPTIONS



ELIMINATE MEDIOCRITY – e.g. LOW-LEVEL TASKS



INCREASE THE INTENSITY

Challenge Strategies:

Strategy: 1.2: Plan for Reading.

Purpose: Improving students' reading confidence is central to the curriculum as a whole; this must be challenging to all pupils.

Description:

It is essential to plan for reading throughout all areas of curriculum planning. Planning for this includes teachers examining how students' fluency in reading and their knowledge of the subject can be mutually reinforced to challenge all learners. Appropriate reading materials must be selected and appropriate activities utilised so that reading is successfully embedded into the routines of lessons as the 'beating heart' of the curriculum.



Core WalkThrus Link: Pages 60-61.

Supporting Research:

https://educationendowmentfoundation.org.uk/education-evidence/teaching-learningtoolkit/reading-comprehension-strategies

https://teacherhead.com/2022/09/24/five-ways-to-the-booklet/(page 5).



MAKE READING CENTRAL TO YOUR PLANNING



IDENTIFY KEY VOCABULARY, PHRASES AND WRITING STEMS



PLAN READING RESOURCES



PLAN COMPREHENSION ACTIVITIES



BUILD TOWARDS INDEPENDENT READING

Challenge Strategies:

Strategy 1.3: Tiered Questions and Problems.

<u>Purpose:</u> To tier challenges and problems, all students can progress through the steps in different ways whilst keeping long-term goals in mind,

Description:

The challenge is to set students appropriate levels of practise without lowering long-term expectations and putting a ceiling on what the can achieve. By tiering challenges and problem sets, alongside designing open-ended tasks that allow responses at a range of levels, all students can progress through the steps at their own level without impacting upon their progress.



<u>Core WalkThrus Link:</u> Pages 62-63. <u>Supporting Research:</u>

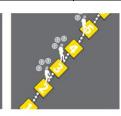
https://teacherhead.com/2017/05/28/teaching-to-the-top-attitudes-and-strategies-for-delivering-real-challenge/



MAP THE STAGES OF DIFFICULTY IN A TOPIC



ASSEMBLE QUESTIONS TO SUPPORT PRACTICE AT EACH LEVEL OF DIFFICULTY



PRODUCE TIERED QUESTION SETS THAT STEP UP THROUGH THE LEVELS



DESIGN OPEN TASKS THAT ALLOW RESPONSES AT A RANGE OF LEVELS



DESIGN 'WHAT NEXT' ROUTINES

2.) Explanation (Rosenshine's Principles of Instruction: Present New Materials in Small Steps) -

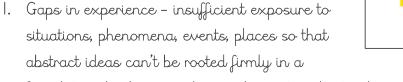
Definition:

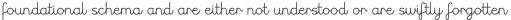
Explanation is the framing of information in such a way that all students are able to secure and interpret new knowledge.

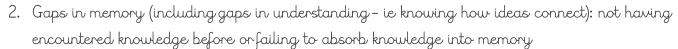
Theory and Research:

Students learn ideas by referencing them to ideas they already know creating schema. If students

manage to categorise this new information into an existing schema within their long-term memory, learners will retain this new information. Explanations must therefore relate information to their existing schema. Where knowledge gaps exist, research suggests this usually occurs from:







- 3. Gaps in confidence and fluency where knowledge has been encountered but hasn't been subjected to sufficiently intense or varied practice such that students are continually tentative or forgetful or prone to errors
- 4. Limited or faulty schema: where knowledge has been arranged in a schema that contains misconceptions, preventing students making sense of new information.

Implications for Teaching and Learning at Parish and St James:

Our teachers ensure that explanations build on prior knowledge to learn the new information. Our carefully planned curriculum coherently links to and builds on something already known with teachers incorporating short reviews of previous learning (Rosenshine, 2012) across all subjects and lessons. Teachers understand and allow for the limitations of the working memory when asking students to take on board new information and giving instructions. This means that staff present new information in small steps with student practice after each step (Rosenshine, 2012). Abstract concepts are also made concrete – staff consider how to make abstract ideas make sense, including diagrams, models, scaffolds and significantly clear explanations. This is intrinsic to all lessons taught but does not mean staff must do all of the talking.

Explaining Strategies:

Strategy 2.1: Dual Coding: Recount and Recall:

<u>Purpose:</u> To allow for visual sharing of schema, to bypass constraints of the working memory.

Description:

Dual coding: recount and recall allows teachers to share their scheme with students visually as well as with words. This understanding is strengthened through peer explanation and this provides a great opportunity for oral rehearsal in preparation for later writing.



Core WalkThrus Link: Page 70-71.

Supporting: Research:

https://www.youtube.com/watch?v=vsKBWsW2Unw



CONSTRUCT & EXPLAIN YOUR DIAGRAM



COPY & EXPLAIN THE BRANCH WITH TRACING OF THE LINES



REPEAT THE SAME PROCESS UNTIL THE WHOLE DIAGRAM IS COMPLETE



RECOUNT THE WHOLE DIAGRAM TO PARTNER, WITH TRACING



REDRAW THE WHOLE DIAGRAM FROM MEMORY

Explaining Strategies:

Strategy 2.2: Deliberate Vocabulary Development

<u>Purpose:</u> To ensure the process for learning new vocabulary is deliberate and explicit as part of teacher instruction.

Description:

These steps support a deliberate vocabulary development process for all learners. The words must be specified and defined before a deliberate and systematic approach is utilised to support the application and fluency of the words. Words must be used verbally and in writing to internalise their learning.



Core WalkThrus Link: Pages 72-73.

<u>Supporting Research</u>: Word Aware Approaches (See Appendix 3). https://www.theconfidentteacher.com/2021/05/three-pillars-of-vocabulary-teaching/ (Alex Quigley - Closing the Vocabulary Gap).



SPECIFY AND DEFINE THE WORDS



SAY THE WORDS



READ WORDS IN CONTEXT



PRACTISE USING THE WORDS VERBALLY AND IN WRITING



ENGAGE IN WORD-BASED RETRIEVAL PRACTICE

Explaining Strategies:

Strategy 2.3 Big Picture, Small Picture.

Purpose: To illustrate how ideas are connected and understand the bigger picture of learning.

Description:

Understanding the 'Big Picture, Small Picture' can help students to form coherent schema if teachers front-load the process of organising information in the way ideas are introduced. Set out the big picture, explicitly zoom in on one area and then ensure that students can make the links themselves.

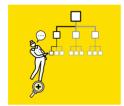


Core WalkThrus Link: Pages 74-75.

Supporting Research:

https://teacherhead.com/2019/02/12/curriculum-notes-2-big-picture-first-then-zoom-in/











SET OUT THE BIG PICTURE

ZOOM IN — ORIENTATE!

ZOOM IN AND ZOOM OUT STEP BY STEP

REHEARSE AND CHECK FOR UNDERSTANDING

USE THE ZOOM IN/ZOOM OUT PROCESS ROUTINELY

Explaining Strategies:

Strategy 2.4: Abstract Models with Concrete Examples.

<u>Purpose:</u> To support students in making a connection between concrete examples and abstract concepts.

Description:

Making a connection between concrete examples and abstract concepts is extremely challenging, Teachers can support this process through linking examples and models both deliberately and explicitly. Retrieval of previously taught concrete examples is essential.



Core WalkThrus Link: Pages 76-77.

Supporting Research:

https://teacherhead.com/2020/10/22/reaching-into-the-comers-12-ways-learning-can-be-hard-and-what-to-do-about-it/



DEMONSTRATE AN EXAMPLE



DEFINE THE CONCEPT IN GENERAL TERMS



PROVIDE FURTHER CONCRETE EXAMPLES



CHECK FOR UNDERSTANDING



ENGAGE IN RETRIEVAL PRACTICE

3.) Modelling:

(Rosenshine's Principles of Instruction: Provide Models and Scaffolds for Difficult Tasks).

Definition:

Modelling is the guiding of students through each stage of a task and explaining the rationale of each stage prior to a student's independent attempt. Modelling helps pupils understand new processes and ideas; good models make abstract ideas concrete and accessible.

Theory and Research:

Cognitive psychologist George Miller discovered in the 1950s that the human working memory can, at best, hold seven ideas or concepts at once, although many now predict that this is much lower. When we get 'smarter' that is due to a process known as 'chunking', where students attach new ideas to existing schema and new information no longer takes up the space in the working memory, and thus more challenging tasks can be completed. Modelling allows students to become familiar with each step (or 'chunk') in advance to completing the full task independently, which helps to lessen the chance of over-exposure to new concepts and the potential for cognitive overload. By providing worked examples, students also see what they are aiming to achieve, which also reduces the burden. Therefore according to Rosenshine, 'students need cognitive support to help them to learn to solve problems.'

Rosenshine's Principles of Effective Instruction states that effective teachers provide 'a good deal of instructional support' and one of the ways they do this is through modelling. Of Rosenshine's seventeen principles of effective instruction, two of them explicitly refer to modelling. Rosenshine states that effective teachers 'provide models of worked-out problems' and 'think aloud and model steps.'

Durrington Research School emphasises the importance of effective modelling, stating that it should 'enable students to reflect on the processes of task completion and then gradually remove the modelling scaffolding, thus developing independent and highly metacognitive students.' Durrington Research School does, however, acknowledge the difficulty of this.

Implications for Teaching and Learning at Parish and St James:

Teachers explain the key ideas before modelling how to do it and what to do with it. This falls in to two main categories: <u>Task Modelling</u> is where teachers show pupils how to complete a task by doing it themselves. <u>Metacognitive Modelling</u> is where our teachers show pupils how to approach a task by modelling the thinking process e.g. thinking aloud. This refers to narrating thought processes when modelling to make explicit how experts think.

Modelling Strategies:

Strategy 3.1: Worked Examples and Backward Fading

<u>Purpose:</u> To provide a series of completed worked examples to support pupil success.

Description:

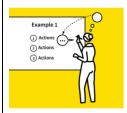
Providing worked and backward fading reduces the cognitive load for pupils (as they learn the overall method separately to the question). Once we know the method it is easier to apply it successfully in the context of different questions. Teachers must ensure they are providing enough worked examples, moving from guided to independent practice.



Core WalkThrus Link: Pages 68-69.

Supporting Research:

https://tomneedhamteach.wordpress.com/2018/10/15/applying-cognitive-load-theory-to-english-part-3-the-problem-completion-effect-an-overview/



FULLY WORKED TO INTRODUCE THE METHOD OR IDEAS



FULLY WORKED FOR REINFORCEMENT



PARTIALLY WORKED FOR STUDENTS TO FINISH OFF



CUED START FOR STUDENT COMPLETION



COMPLETED INDEPENDENTLY

Modelling Strategies:

Strategy 3.2: Live Modelling

Purpose: To show pupils the learning process before they complete the task.

Description:

Teachers walk through a learning process themselves, showing students how to do key things, highlighting key procedures and any thinking that underpins them. This holds a vital metacognitive aspect (making decision making explicit) as well as providing examples of completed work that can serve as scaffolds for students to base their work upon in the initial stages.



Core WalkThrus Link: Pages 78-79.

Supporting Research: https://teacherhead.com/2022/09/24/five-ways-to-the-booklet/ (Page 12).



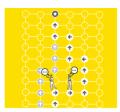
MODEL EACH STAGE STEP BY STEP



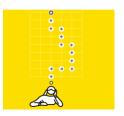
MODEL HOW YOU ORGANISE MESSY THINKING



REVIEW THE SUCCESS OR QUALITY OF YOUR OWN WORK



MODEL ALTERNATIVES AND FURTHER EXAMPLES



SET TASKS TO EMULATE THE MODEL

Modelling Strategies:

Strategy 3.3: Scaffolding.

Purpose: To provide support for all students to achieve the learning outcome rather than setting lower expectations.

Description:

Teachers support children to reach ambitious goals using a range of scaffolding processed that guide them on their way. Providing scaffolds at a variety of levels (including at a detailed and an overview level) is vital. It is also essential that once ready, these scaffolds of support are withdrawn, as it is temporary strategy that must not be become relied upon.



Core WalkThrus Link: Pages 80-81.

Supporting Research:

https://teacherhead.com/2022/09/24/five-ways-to-the-booklet/ (Page 8).



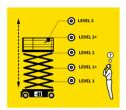
MAP OUT THE COMPONENTS OF A TASK



PROVIDE SUPPORTS AT A DETAILED LEVEL



PROVIDE SUPPORTS AT



PREPARE SCAFFOLDING SETS OFFERING VARYING LEVELS OF SUPPORT



TAKE THE SCAFFOLDING DOWN

Modelling Strategies:

Strategy 3.4: Metacognitive Talk: Narrate the Thinking.

Purpose: To develop pupils' metacognitive ability through teacher modelling and narration of their thought process.

Description:

Teachers can support students in developing their capacity for metacognitive thinking by modelling it and promoting metacognitive talk in lessons. Essentially, it is a process of narrating through processes and making them explicit before reviewing how they have been successful.



Core WalkThrus Link: Pages 82-83.

Supporting Research:

https://classteaching.wordpress.com/2020/03/12/developing-metacognitive-talk-in-students/



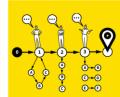
SET A PROBLEM AND EXPLORE IT



WHAT DO WE ALREADY



WHERE DO WE START?



MAKE A PLAN AND MONITOR



HAVE WE BEEN SUCCESSFUL?

Modelling Strategies:

Strategy 3.5: Set the Standards.

Purpose: To make it clear how to approach a learning goal and set the high standards of work within the lesson.

Description:

Set the standards makes it clear how to achieve a learning goal. Pupils should engage in a process of clarifying the learning goals and exemplifying what excellence looks like. Exemplars of successful example alongside success criteria are also significant here.



<u>Core WalkThrus Link:</u> Pages 84-85. <u>Supporting Research:</u>

https://teacherhead.com/2013/11/20/defining-the-butterfly-knowing-the-standards/



MAKE WHAT DOES EXCELLENCE LOOK LIKE? A ROUTINE



DECONSTRUCT EXEMPLARS



CO-CONSTRUCT SUCCESS CRITERIA



REFERENCE CONTRASTING



BLEND TEACHER ASSESSMENT AND SELF-ASSESSMENT

Modelling Strategies:

Strategy 3.6: Head-on Misconceptions:

Purpose: To pre-empt common misconceptions and unpick faulty schema with deliberate re-thinking.

Description:

Students often develop misconceptions. However, if students have developed a schema around a misconception, it is not sufficient to continually re-teach the correct version because the misconception will resurface. The schema must be rewired to make the correct version the default.



Core WalkThrus Link: Pages 86-87.
Supporting Research:



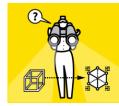
IDENTIFY COMMON MISCONCEPTIONS



INTRODUCE A MISCONCEPTION EXPLICITLY: WHY IS IT WRONG?



REINFORCE A CORRECT UNDERLYING CONCEPTUAL MODEL



CHECK FOR UNDERSTANDING OF THE MISCONCEPTION AND THE CORRECTION



PRACTISE THE CORRECT VERSION

4.) Practice:

(Rosenshine's Principles of Instruction: Guide Student Practise and Independent Practise).

Definition:

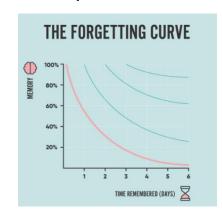
Practice requires students to develop fluency and expertise by recalling previous knowledge and applying it to different context with increasing independence. Effective retrieval is at the heart of this.

Theory and Research:

Rosenshine states that teachers need to be spending more time cultivating a classroom environment that provides students with the opportunity to practise retrieval with the material they're learning. The more students can practise rehearsal, the easier it becomes to retrieve this information from their long-term memory when they need it.

However, Dunlosky also identified that students must be allowed to 'forget'. Robert & Elizabeth Bjork's 'New Theory of Disuse' has underlined its importance in the learning process. They explain that everything we ever encounter has a retrieval strength (how easily we can recall information) and a

storage strength (how well we know something); retrieval strength completely determines our ability to recall memories, but it's storage strength that governs how quickly we forget and regain information. They found that as we forget and retrieval strength dips, when we practice there's a noticeably larger increase in storage strength, showcasing how forgetting creates the opportunity to reach additional levels of learning. Therefore, practicing following a period of forgetting is what leads to long-term memorisation.



Practice also relates to the concept of 'mastery teaching'. Mastery teaching involves getting students to master a topic (for example, achieve 90% or above in a test) before moving on. This is typically done through getting a student to engage in 'deliberate' or 'purposeful' practice.

Implications for Teaching and Learning at Parish and St James:

Teachers carefully create opportunities for students to practice using new knowledge and skills. This takes places through practice for fluency and long-term retention, which involves repeating things in order to master them and coming back to things in subsequent lessons (https://teacherhead.com/2022/09/24/five-ways-to-the-booklet/ (page 14). Teachers also consider the careful transition from guided to the end goal of independent practice.

Practice (and Retrieval) Strategies:

Strategy 4.1: Quizzing

Purpose: To check that students have learnt the material that you want them to know.

Description:

The process of quizzing provides information to both student and teacher about what they have learnt and where any gaps exist. It also supports retrieval or previously learnt knowledge so that it will become easier to remember later and fluently.



Core WalkThrus Link: Pages 112-113.

<u>Supporting Research:</u> Katie Jones – Retrieval Practice: Primary.



SPECIFY THE MATERIAL IN ADVANCE



ASK A SET OF SHORT FACTUAL RECALL QUESTIONS, VARYING IN STYLE



GIVE ALL STUDENTS TIME TO ANSWER ALL OF THE QUESTIONS



PROVIDE THE ANSWERS FOR STUDENTS TO SELF OR PEER-CHECK



AFFIRM GOOD PERFORMANCE AND SEEK OUT WRONG ANSWERS

Practice (and Retrieval) Strategies:

Strategy 4.2: Using a Knowledge Organiser.

Purpose: To provide pupils with accessible guidance about knowledge that they can study on their own in order to build a secure schema.

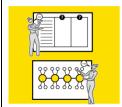
Description:

Knowledge organisers are intended as a summary, not an exhaustive list of all that could be known. However, that only serve a purpose if they are used effectively linked to retrieval techniques.



Core WalkThrus Link: Pages 116-117.

Supporting Research https://thirdspacelearning.com/blog/knowledge-organisers/ https://classleaching.wordpress.com/2018/09/14/using-knowledge-organisers-to-improve-retrievalpractice/



DESIGN KNOWLEDGE ORGANISERS TO BE QUIZZABLE



FOCUS ON SPECIFIC ELEMENTS



READ AND REHEARSE



CLOSE OR COVER FOR GENERATIVE RECALL



CHECK FOR ACCURACY

Practice (and Retrieval) Strategies:

Strategy 4.3: Peer Supported Retrieval,

<u>Purpose:</u> To train students to test each other's knowledge and provide corrective feedback.

Description:

Student's test each other's knowledge, supported by resources to ensure that feedback is accurate. The process is refined over time with the use of questions and answer prompts and relevant models essential. Careful selection of positive groupings is key here.



<u>Core WalkThrus Link:</u> Pages 120-121. <u>Supporting Research:</u> Katie Jones - Retrieval Practise.



PROVIDE QUESTION AND ANSWER PROMPTS



ALLOCATE CHECKING PARTNERS



STUDENT 1 ASSESSES STUDENT 2



STUDENT 2 TESTS STUDENT 1



DISCUSS COMMON

Practice (and Retrieval) Strategies:

Strategy 4.4: Guided Practice.

Purpose: To devote time to guiding the early stages of practice.

Description:

Guided practice is a culmination of many different Walkthrus, ensuring pupils are achieving a high success rate when they begin to learn new material. Pupils require clear models and scaffolds, ensuring that practise what is right and not what is wrong. This will inform the teacher of whether it is the right time to move onto independent practice.

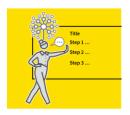


Core WalkThrus Link: Pages 120-121.

Supporting Research:

https://teacherhead.com/2021/01/17/applying-rosenshines-principles-tospecific-contexts/

https://teacherhead.com/2018/09/09/great-teaching-the-power-of-practice/



EXPLAIN AND MODEL THE NEW LEARNING



SET SHORT TASK USING MODELLED KNOWLEDGE OR SKILL



CIRCULATE ACTIVELY CHECKING FOR SUCCESS



CHECK FOR ERROR; AFFIRM SUCCESS



RE-TEACH OR EXTEND THE PRACTICE

Practice (and Retrieval) Strategies:

Strategy 4.5: Independent Practice.

<u>Purpose:</u> To provide extensive practise allowing students to reach the point where they can apply their learning independently.

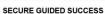
Description:

Independent practice supports the overlearning that is essential for students to develop the automaticity needed for fluent application and recall in the future. There is a fine balance from moving from guided to independent practice, as teachers gradually reduce the amount of guidance they provide. They key is to increase challenge over time.



<u>Core WalkThrus Link:</u> Pages 128-129. <u>Supporting Research:</u>







REMOVE SCAFFOLDS AND INITIATE PRACTICE



CHECK AND FEEDBACK



REDUCE GUIDANCE OVER TIME



INCREASE CHALLENGE OVER TIME

5.) Feedback

(Rosenshine's Principles of Instruction: Daily Review and Weekly and Monthly Review).

Definition:

Feedback is the provision of information to the learner, given by a teacher or peer, with respect to the learner's performance relative to learning goals or outcomes. Feedback is crucial for letting pupils know the stage they're at with their learning, and the steps they need to take to move forward.

Theory and Research:

The Education Endowment Foundation [EEF] has conducted extensive research into feedback and found it to be a highly effective tool for increasing pupil progress. They found that effective feedback can enable primary school pupils to make, on average, an additional 7 months' progress. Low-attaining pupils also tend to benefit more from explicit feedback than high-attaining pupils

John Hattie, in his 2008 book on best practice 'Visible Learning', identified that feedback was one of the 'top 5 to 10 most effective strategies in terms of the impact it had on students' learning'. As Hattie indicates within his research, 'feedback is one of the most powerful influences on learning and achievement, but this impact can be positive or negative'; in other words, as well as correcting misconceptions, feedback, if done without due diligence, can reinforce and consolidate errors, too. For feedback to be effective, it should provide clarity (by telling students where they are and what they must do to improve) and aim to increase effort and aspiration. Although teachers deliver feedback almost constantly as they teach, traditionally feedback on student work has been delivered primarily through 'written feedback' or 'marking'. In recent years, alternatives have been discussed with more focus on how rather than what feedback is given.

Implications for Teaching and Learning at Parish and St James:

In line with our 'Marking and Feedback Policy', our teachers carefully plan how to ensure feedback is meaningful, motivating and manageable. Staff recognise that feedback is a two-way process and the teacher should use the students' feedback to inform future teaching and learning. Our teachers also:

- Regular and Teacher Teaching is specific adapted based on improvement points are student used to close Feedback responses. the learning So that ... gap. Teaching is So that Learning is responsive. Student informed.
- Lay the foundations for effective feedback with high quality teaching, including formative assessment.
- Deliver appropriately timed feedback that focuses on moving learning forward with time for pupils to receive and use feedback.
- Carefully consider how to use purposeful, and time-efficient, written feedback and verbal feedback.

Feedback Strategies:

Strategy 5.1: Feedback that Moves Forward.

<u>Purpose:</u> To provide students with feedback that secures improvements in their retention of knowledge and quality of future work produced.

Description:

In order for feedback to be effective, it needs to be understood, accepted and actionable for the pupil to secure future improvements. Feedback must also be motivational to apply effort alongside specifics of the strategies that they need to employ. In line with out marking and feedback policy to support teacher workload, this feedback must be meaningful, manageable and motivating to focus on forward improvements.



Core WalkThrus Link: Pages 104-105.
Supporting Research:

https://www.youtube.com/watch?v=BUPuNc6iYj8







KEEP IT POSITIVE AND SPECIFIC



MATCH THE MESSAGE TO THE STUDENT



AVOID SATNAV SYNDROME



REDUCE FEEDBACK OVER TIME

Feedback Strategies:

Strategy 5.2: Feedback as Actions

Purpose: To frame feedback as an actionable instruction to do something.

Description:

In giving feedback as actions, students are being set a task that addresses their learning need with the feedback embedded in the selection of the task. You must choose whether to ask the pupil to do ONE of the following: redraft or re-do, rehearse or repeat, revisit and respond to more questions, re-learn material and re-test or research and record,



Core WalkThrus Link: Pages 106-107.

Supporting Research: https://teacherhead.com/2018/01/14/the-five-forms-of-feedback-i-give-to-teachers-most-often/



REDRAFT OR RE-DO



REHEARSE OR REPEAT



REVISIT AND RESPOND TO MORE QUESTIONS



RE-LEARN MATERIAL AND RE-TEST



RESEARCH AND RECORD

Feedback Strategies:

Strategy 5.3: Whole Class Feedback

Purpose: To provide students with timely, detailed feedback provided to the class as a whole without detailed written feedback,

Description:

Whole class feedback replaces writing detailed individual comments in books. This allows the teacher to engage with the details of the work students produce rapidly, to inform a short, effective feedback and improvement cycle. The way this can be provided should note the strengths and areas for improvements with improvement time significant.



Core WalkThrus Link: Pages 108-109.

Supporting Research: https://ado worth the squeeze/ https://researchechooloog.uk/huntington/news/whole-class-feedback-a-primary-case-study







NOTE THE STRENGTHS



NOTE AREAS FOR IMPROVEMENT



GIVE THE FEEDBACK



GIVE IMPROVEMENT TIME

6.) Questioning

(Rosenshine's Principles of Instruction: Ask questions and check student understanding).

Definition:

Questioning is an essential formative assessment tool for teachers, that has many purposes, including to check pupils' prior knowledge, assess understanding and break down problems.

Theory and Research:

A research study conducted by Levin and Long (in the 1980s) concluded that teachers ask between 300-400 questions a day, meaning it is an essential strategy for all educational practitioners to develop and perfect. In 2012, Barak Rosenshine published his paper on evidence-based instruction, within which questioning was identified as one of the ten most impactful strategies for improving student outcomes. The results from Rosenshine's studies showed that the students of the teachers who asked a great number of questions within lessons, did significantly better than the students of those who did not. However, Rosenshine also identified that successful teachers ask a lot of process questions, while the less successful teachers asked almost none. Thus, the impact that questioning can have on student outcomes does not necessarily derive solely from the quantity of questions that are asked within a lesson, but also from the quality of the questions asked.

There are many types of ways to categorise questions. One simple way to begin to categorise questions is to sort them into two groups open questions and closed questions. Open questions are those that require an explained answer or depth of thinking, while closed questions require a 'yes' or 'no' answer, or an answer within a limited range such as only one correct response. Dylan Wiliam cited in his own teaching how giving students a limited amount of 'think time' led to only a handful of students feeling confident enough to answer his questions. This led Wiliam to propose a different type of diagnostic questioning, known as 'hinge questioning'. Hinge questions seek to be both brief (allowing for pace) and more accurate in eliciting whether all students have completely understood a concept or not.

Implications for Teaching and Learning at Parish and St James:

Our teachers are highly skilled to know how some questions can be planned for while some should be responsive to what is happening in the lesson. Staff are trained in asking a wide range of questions including those that: check for understanding (https://teacherhead.com/2022/09/24/five-ways-to-the-booklet/ - page 6), check the responses of all students, increase the ratio of participation and thinking of all students and provoke deeper thinking.

Questioning Strategies:

Strategy 6.1: Cold Calling

Purpose: To increase engagement levels across the class, ensuring all children are ready to answer questions.

Description:

Often referred to as 'no hands up', this strategy helps to make all students think. It is important to involve all pupils in the thinking and to sample responses strategically. If you allow 'hands up' or 'calling out', you only get responses from volunteers. Cold calling allows you to chooses who answers, keeping the whole class involved and giving better information from which to plan next responsive steps.



Core WalkThrus Link: Pages 90 and 91.

Supporting Research: https://teacherhead.com/2021/02/07/cold-calling-the-1-strategy-forinclusive-classrooms-remote-and-in-person/ https://www.uoutube.com/watch?ve-UFXu4-vmdPMa



ASK THE CLASS THE QUESTION



GIVE THINKING TIME



SELECT SOMEONE TO RESPOND



RESPOND TO THE ANSWERS



SELECT ANOTHER STUDENT AND RESPOND AGAIN

Questioning Strategies:

Strategy 6.2; Think, Pair, Share

Purpose: For pupils to engage in structured discussion, providing an opportunity for the voice of each pupil to be heard.

Description:

Throughout the learning sequence, it can be beneficial for students to engaged in structured discussion. Pairs are one powerful way to involve all students to talk about the material in hand in a structured manner, switching between this and whole class listening.



<u>Core WalkThrus Link:</u> Pages 92-93. <u>Supporting Research:</u> Oracy Policy.



ESTABLISH TALK
PARTNERS FOR EVERY
STUDENT



SET THE QUESTION WITH A GOAL AND A TIMEFRAME



BUILD IN THINKING TIME



CIRCULATE TO LISTEN AS



USE COLD CALL TO SAMPLE PAIRS' RESPONSES

Questioning Strategies:

Strategy 6.3: Show Me Boards.

Purpose: To allow all children to simultaneously answer a question using mini whiteboards.

Description:

Use of mini whiteboards as show me boards, allows students to write on boards in response to a question and then simultaneously show pupils their responses. This provides the teacher with a range of feedback about the range of responses around the class. It also helps students to generate ideas or practise making diagrams/short sentences before formally recording.



<u>Core WalkThrus Link:</u> Pages 94-95. <u>Supporting Research:</u>

https://researchschool.org.uk/durrington/news/checking-or-reallychecking



ENSURE EVERY STUDENT HAS A BOARD AND PEN TO HAND



SET THE QUESTION WITH A GOAL AND A TIMEFRAME



BUILD IN THINKING TIME



SIGNAL: 3-2-1 AND SHOW ME



SAMPLE STUDENT RESPONSES AND FOLLOW UP

Questioning Strategies:

Strategy 6.4: Say It Again Better.

Purpose: To develop the standard for the depth of verbal responses and elicit high-quality responses.

Description:

Rather than accepting short, shallow responses with little development 'say it again better' ensures a higher standard for the depth of verbal responses and provides a structure to produce high quality responses. Using this questioning strategy, you accept initial responses but develop them each time.



Core WalkThrus Link: Pages 98-99.

Supporting Research: https://myschartered.college/up-

content/uploads/2018/10/8.-Say-It-Again-Better.pdf

Oracy Policy



ASK A STUDENT A QUESTION



ACKNOWLEDGE THE FIRST RESPONSE



GIVE SUPPORTIVE FORMATIVE FEEDBACK



INVITE STUDENT TO "SAY IT AGAIN BETTER"



RESPOND TO THE IMPROVED RESPONSE

Questioning Strategies:

Strategy 6.5: Probing Questions.

<u>Purposes</u> To allow students to probe their schema for the ideas being discussed and make greater connections in their learning.

Description:

Well-chosen probing questions can support students to make links between ideas, to rehearse explanations to support long-term memory retention and to identify knowledge gaps and misconceptions. As a clear questioning style, examples of probing questions include:

What are the main reasons for this?

Is that always true or just in this case?

What would be the most important factor?



Core WalkThrus Link: Supporting Research:

https://www.education.comer.com/types-of-questions-in-theclassroom/



ASK A STUDENT A QUESTION



FOLLOW-UP WITH A PROBING QUESTION



LISTEN AND PROBE



ASK ANOTHER STUDENT TO CONTINUE



CHECK FOR UNDERSTANDING FROM OTHERS

Questioning Strategies:

Strategy 6.6: Process Questions.

Purpose: To encourage metacognitive talk with a focus on the 'how do we know' and 'how do we work it out?'

Description:

With a focus on the questions of 'how do we know' and the 'how do we work it out?', modelling and dialogue around process questions supports students to develop independent thinking. This provides a focus on the 'how' and 'why' while asking pupils to explain their methods, ideas and choices.



Core WalkThrus Link: Pages 102-103.

Supporting Research: https://www.educationcomer.com/types-ofguestions-in-the-classroom/



MODEL YOUR THINKING



EMPHASISE HOW AND WHY



ASK STUDENTS TO EXPLAIN THEIR METHODS AND REASONING



ASK STUDENTS TO EXPLAIN THEIR IDEAS AND CHOICES



ASK HOW SIMILAR ALTERNATIVE QUESTIONS OR PROBLEMS MIGHT BE APPROACHED

Appendix 1: Oracy Based Teaching and Learning Strategies:

Below are some of the Oracy strategies that drive the teaching and learning around our six core 'Pedagogical Principles'.

Discussion Guidelines and Listening Ladder:

Our discussion guidelines are a set of guidelines for partner and group discussion that help to maintain a safe, effective and respectful environment for talk. Alongside our 'Listening Ladder' and 'STAR learning behaviours', they support the creation of an effective environment for talk and age appropriate, adapted versions are clearly displayed and modelled within each classroom across school to create a consistency of approach.

Talk Tactics:

Talk tactics explicitly state the roles and appropriate sentence stems to support pupils of all ages and abilities to access partner or group discussion.

Different roles can be assigned and are used to progressively develop talk across all year groups. There are both pupil and teacher talk tactics that harness a culture of high-quality talk across the classroom and throughout school.

Questioning:

Questions are differentiated by teachers to ensure full participation and that pupil discussions are scaffolded to ensure inclusive practice. Staff are trained in different types of questions and utilise different question types to enhance learning across different subjects.





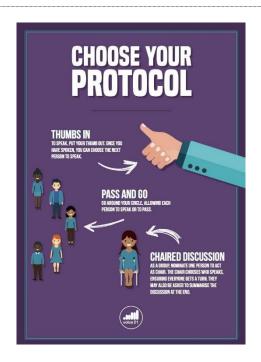
Factual questions	A single right answer
Reasoning questions	Draw on logical or sequential thought
Open questions	No anticipated right answer
Social questions	Invite children to share experiences or enable teacher to control the class

Talk Protocolsi

Talk Protocols allow pupils to self-govern talk and move on their own discussion with increasing articulacy.

Talk Detectives:

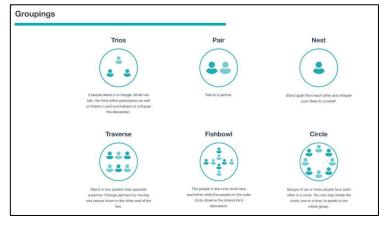
Metacognitive thinking in oracy is useful to employ oracy-specific models for feedback and reflection. These can develop students' understanding of the unconscious processes underlying talk, as well as reinforce the shared language for oracy you are developing in the classroom. 'Talk Detectives' allow students to step out of a discussion and recognise which oracy skills are being used and if discussion guidelines are being followed. The talk detectives sneak around the classroom eavesdropping on the discussions going on and noting the things they hear to offer feedback to the class.



Groupings

Groupings support talk for different purposes. Groupings are chosen to suit the purpose of a discussion and also the

number of pupils involved. In smaller groups, students will have more opportunities to share their ideas than during whole class discussion. When good habits for talk are well-established, larger groups provide opportunities for students to interact with more ideas, carefully navigating the expectations for talk in a more complex situation.



Fed-In-Facts:

Rather than solely dialogic teaching, 'fed-in facts'

Appendix 2: Our Standardised Lesson Format - A 'Learning Quest':

A Learning Quest



Question to answer.

Understanding previous learning.

Explore new knowledge and vocabulary.

Student practise.

Talk, test, tell.



Applying Rosenshine's Principle of Instructions

Understanding previous learning.

- Daily review
- Weekly and monthly review





- Ask questions
- Check for student understanding





Cally review is important in helping to recurface prior learning from the last lesson. Let's not be surprised that stalends don't immediately remember everything. They won't it's a powerful technique for building benery and confidence and it's expectally important if we've about to introduce new learning — to activate elevant prior learning in working memory.

Explore new knowledge and vocabulary.

- Present new material using small steps
- Provide models
- Provide scaffolds for difficult tasks

remonstration one importance or procure operations, we remote all constructions woulded blings out, not pair pr anowers. He is also multy good on stressing that asking questions is about getting feedback to us as trackers about how well we've tradpit the insuerial and about the need to check understanding to ensure misconceptions are flished out and tackled.







Small steps — with practice at each stage. We need to break down our concepts and procedures (like multi-stage maths problems or writing) into small steps so that each can be received.

Models — including the importance of the worked-example effect to reduce cognitive load. We need to give many worked examples; too often teachers give too few. Scaffolding is needed to develop expenser — a form of mastery coaching, where cognitive supports are given — such as how to structure extended writing — but they are gradually withdrawn. The sequencing is key. Stabilisers on a bilor are really powerful aids to the learning and confidence building — but eventually they need to come off.

Student practise.

- Guide student practice
- Obtain a high success rate
- Independent practice







Teachers need to be up close to studency initial attempts, making sure that they are building confidence and not making too many errors. This is a common weakness with fees effective teachers." Called practice requires close supervision and feedback. Refly secures safe in operationing and particle— is important. Resembline supports the optimism is 80%. Le hight Not 95-100% (too easy). He even suggests 70% is too low.

independent, monitored practice. Successful teachers make time for students to do this things they've been taught, by themselves... when they're roady. "Students need extensive, successful, independent practice in order for skills and innuledge to become automate".

Appendix 3: Teaching and Learning Strategies to Develop Vocabulary.

The Word Aware Approach to Effectively Teaching Vocabulary: [Stephen Parsons and Anna Branagan, 2021].

Make Words Count (children surrounded by spoken and written words and inspired to learn them).

<u>Teaching Vocabulary</u> (introduce new words from content-rich subjects as well as teaching words sourced from books).

Theory of Teaching New Vocabulary (STAR - select, teach, activate, review). [Blachowicz and Fisher, 2010)

Theory of reacting their vocaballing	<u> </u>	7). [Duaciounos ana insider, 2010]
<u>Tier I Vocabulary:</u>	<u>Tier 2 Vocabulary:</u>	<u>Tier 3 Vocabulary:</u>
Students have a thorough	Really useful words. Likely to be	Less likely to be encountered in
understanding of these words,	encountered again in reading and	reading or in oral language.
everyday spoken language for a	in oral language. Average adult has	Average adult does not have
child of this age. Used at home and	a good level of knowledge of the	much knowledge of the word,
in daily interactions. Children may	words. Words that are very topic	Words are particularly topic
have become familiar with	specific but core to the topic.	specific and not core to the
language through school.	Desirable for students in KS2 to use	topic. Not a prerequisite for
	in their writing.	students in KS2 to use in their
		writing.
Should be common knowledge.	Words taught to the whole class -	Briefly explained but be
However, if needed, provide small	select one per lesson. Therefore, a	otherwise ignored. Important for
group teaching or pre-teaching to	six-week topic should only have up	comprehension and
understand. Will develop over time.	to six new tier 2 words. Always	understanding.
	introduce words concept at a time -	
	never teach opposites in the same	
	lesson,	

How to Teach Tier 2 Vocabulary

All components below are taught within each lesson delivered during the 'Explore New Knowledge and Vocabulary' part of our Learning Quest. Approximately 5 minutes).

	U	0 11 0 ,
	<u>Symbol</u>	Use a picture/symbol that represents the word.
	Phonology	Do as many as possible (clap syllables, rhyme, initial sound or
		say to partner).
	<u>Semantics</u>	Discuss the meaning, encouraging contributions about the
<u>Step 2</u>		word's meaning. A teacher than adds child friendly information
[Word Wizard]		about the word. Possibly use anchor words to explain the
		meaning of the Tier 2 words.
	<u>Sentence</u>	Children use the word in a meaningful sentence.
	<u>Action</u>	Act it out (where possible).
	<u>Song</u>	Use the song or rap to reinforce the word,

Step 3	Working Word Wall	Add the word (and a picture if possible) to our 'Building Vocabulary' wall to prompt immediate recall. Do this live in
		the lesson,
Step 4	Word Pot	The word goes into the word pot for reviewing in the future.

QUEST Approach to Teaching and Learning - Incorporating Vocabulary:

E - Explore New Vocabulary and Knowledge (Discretely Teach New Vocabulary):

- 1.) Choose one piece of Tier 2 vocabulary per lesson no more.
- 2.) Use the word wizard template (on the screen) in the exploring new knowledge and skills of our QUEST approach to discretely teach the new piece of vocabulary.
- 3.) Add word to the 'Building Vocabulary Wall' live in the lesson for immediate recall during the unit.
- 4.) Add to your word bucket (child-led if possible) to support wider retrieval in the future.

S - Student Practise (By Activating New Vocabulary Throughout the Lesson):

- 1.) Ensure the word is visible on the 'Building Vocabulary Wall' and highlight this throughout the lesson.
- 2.) Use the target word in different contexts as much as possible and ensure it is naturally used throughout the lesson. Link the word to the task selected.
- 3.) Prompt the children to use the word and give feedback on their efforts.
- 4.) Use the words in independent writing. A word mat could be used to support this.

T - Talk, Test, Tell (Short-Term Review):

- 1.) Reviewing the word is important as it exposes children to the word again.
- 2.) Review at the end of the lesson. Use prompts such as "During the lesson what did you learn about the word?

 When do you think you might use this again Tell the person next to you how to remember the word."
- 3.) Target the words on the 'Building Vocabulary Wall'.

Long-Term Review/Retrieval:

- 1.) Working Word Wall Games (Play games such as 'World Wall Say it In a Sentence' and challenge groups of children to come up with sentences that contain words from the Working Word Wall. Pg. 141)
- 2.) Word Pot (Take words out of the word pot and discuss them with the class. Use prompt cards on pg. 138)
- 3.) Word Workshop (Have a discrete session, such as Parish Skills, where you have fun with words. Incorporate words that have recently been learnt and give the children the opportunity to review them and learn more) pg 136).
- 4.) Games (Use games to give the children the opportunity to independently reinforce their word learning).
- 5.) Home Study (Expose children to the target word again in a different context, the meaning of each word will be extended. Write words on a sticker or send the words home for children to stock on their fridge).

Appendix 4: Quality First Teaching Overview.



Quality First Teaching Toolkit

It is intended that this toolkit be distributed to all class teachers. It should be utilised to promote high quality teaching strategies to support pupils. If this guide is used to support an individual pupil it is important that the Strategies for All Learners section is used either in isolation or alongside the strategies for other areas of need. The areas of need pages should **not** be used in isolation as any strategies duplicated across areas of need have been removed and placed within the Strategies for All Learners. It is not anticipated that this document should be used as a whole, rather that professionals should select the most appropriate pages to support their teaching. This should be a working document and ideally should be used electronically to allow notes to be made clearly.

User quidance

•••	Traffic lights to demonstrate the impact of the strategy (those using electronically may want to just highlight the				
	box to the appropriate colour)				
	Page Borders				
	Strategies for All Learners				
	Cognition and Learning (CL)				
	Communication and Interaction (CI)				
	Social, Emotional and Mental Health Difficulties (SEMH)				
	Sensory and/or Physical Needs (SPN)				
	Co-ordination				
	Visual Difficulties				
	Hearing Difficulties				
	Maths				
Strategy Bullet Points					
•	Teaching and Delivery	Resources/ Adaptations			
•	Presentational Features	Recording			
		-			

Appendix 5: Glossary of Key Terminology (Kate Jones - Evidenced Informed Practice):

- Asynchronous Instruction Asynchronous teaching and learning refers to all students learning, but not at the same place or same time. For example class work set on the Google Classroom for students to complete and they will do so at different times and from different locations.
- **Automaticity** This is when we do something so often that it becomes automatic, also known as 'auto-pilot'. There are many scenarios, both inside and outside of the classroom, where this can happen and it will therefore reduce the cognitive load on working memory.
- Blocking This is when subject content or taught material is revised in specific blocks, one after the other. The opposite of blocking is interleaving (see below) and isn't as effective.
- Brain dump This is a low effort, high impact teaching and learning strategy. Students simply have to write down from memory what they can recall about a specific topic/unit as instructed by the teacher.
- Blended learning This also known as hybrid learning, which can contain elements of live teaching from the classroom and online learning. In my current school all lessons are delivered in the physical classroom with some students attending the lesson and others attending via Zoom remotely.
- **Chunking** Grouping information into more manageable sections, categories or chunks to support the limitations of working memory.
- Cognitive Biases When people search or interpret research, evidence and/or information that supports their pre-existing beliefs.
- Cognitive Load If we present our students with too much new information, all at once, this will lead to information overload in working memory. It is important for teachers to be aware of this when planning and delivering lessons.
- Cognitive Load Theory Professor John Sweller has written extensively about cognitive load and this refers to his work described by Dylan Wiliam (2017) as 'the single most important thing for teachers to know'.
- Cognitive Science The scientific study of the human mind.
- Cognitive Psychology The study of specific mental processes such as attention, encoding, memory, perception, problem solving, and thinking.
- Concrete examples Using specific examples to help understand abstract ideas and concepts.
- Confirmation Bias When people search for research, evidence and information to support their own beliefs and ideas or interpret information to suit and match their

beliefs.

- Control group When conducting research, some studies like to compare an intervention group (where something has been changed or added) to a control group (where everything stays the same). This allows us to compare the differences.
- Curriculum This refers to the subjects, topics, content, skills and experiences that are taught in a school.
- Declarative memory A type of long term memory, also known as explicit memory. Information recalled from declarative memory involves conscious effort to bring it to mind unlike procedural memory (see below).
- Desirable difficulties This is a term coined by Professor Robert A Bjork and Professor Elizabeth Bjork. A desirable level of challenge and difficulty must be something that students can overcome with increased effort. 'The Goldilocks Principle' we don't want tasks to be too easy, too difficult but instead desirably difficult!
- Distributed practice This is when students do little amounts regularly (i.e. one hour a day for six days) as opposed to a lot all at once (i.e. six hours in one day). Distributed practice tends to be more effective for long term memory and is also known as spacing.
- **Direct instruction** In academic literature there have been various definitions and interpretations of direct instruction. To generalise, it is academic instruction that is led by the teacher in the classroom.
- Dual Coding Providing information in two different formats, eg visual aids and text, to be transferred through two different channels to memory.
- Dunning Kruger effect This is a cognitive bias where people with low ability can overestimate their ability, believing themselves to be more intelligent and capable than they actually are!
- Effect size This is most commonly associated with the work of Professor John Hattie and quite simply measures the impact of educational initiatives on achievement and outcomes.
- Elaboration/ Elaborative interrogation By having students ask themselves questions (i.e 'How? Why? When?) it encourages them to think deeper and make connections to what they already know.
- Encoding This is the act of processing information and this is the first process of memory when trying to learn new material. Information needs to be transferred so that it can be stored, then later retrieved.
- Episodic memories If we think back to our own school days we have distinct personal memories, these can include our first day at school, performing in concerts, participating in sports days or receiving examination results. We can remember who we were with, what happened and how we felt. These are episodic memories.

- Evidence based This is an approach to practice that focuses attention on empirical evidence in professional decision making and action. Schools and teachers often refer to themselves as evidence based, as they base their classroom practice and approaches on an evidence base.
- Evidence informed Similar to evidence-based but evidence-informed practice recognises that it is more challenging to determine the circumstances and conditions where the evidence works best. It is about applying evidence in the unique context of our classrooms and contexts. For this reason, I consider myself to be evidence-informed rather than evidence-based.
- Extraneous load The third type of cognitive load according to Sweller (see intrinsic and germane blow). This occurs when students are exposed to irrelevant information that requires extra mental processing, this is negative and linked to the redundancy effect (see below).
- Forgetting Curve Based on the work of German psychologist Hermann Ebbinghaus, where he was able to illustrate how memory decays over time. If we learn new information but don't attempt to relearn or refresh that information then it can very quickly be forgotten.
- Formative assessment The aim of formative assessment is to monitor student learning and progress in order to provide ongoing feedback, instructions and support.
- Free recall This is the act of retrieval practice without any scaffolding, support or prompts (see brain dump above as an example of this).
- Germane load This is the second type of cognitive load according to Sweller (the first is intrinsic, see below). This is the process where information becomes stored in long term memory through tasks designed by the teacher to rehearse and repeat exposure to material.
- Hawthorne effect When people are involved in a study or experiment and they attempt to change their behaviour because they are aware that they are being studied and evaluated.
- Interleaving This is the mixing up of topics within a subject. Doing so helps students make connections between topics and think harder about what the appropriate strategy is for that topic.
- Intrinsic load According to Sweller, this is a type of cognitive load, and intrinsic refers to the mental effort required to understand subject content. This is necessary.
- Knowledge organiser A document that is created to support teachers and students with the essential elements of a unit; this can include key facts, dates, terminology, concepts and more. The aim is that a knowledge organiser provides a condensed but thorough overview.

- Learning Objective/Intention/Outcome They describe and explain what it is we want the learners in our classroom to learn.
- Long term memory Long term memory is incredibly powerful in terms of how much information can be stored (we do not know the limitations) and also the duration too.
- Low stakes This refers to testing that is the opposite of high stakes no or low pressure, no formal grading, not stressful but instead informal, regular and enjoyable.
- Memory How our mind stories and organises information and experiences.
- Metacognition An awareness and ability to critically monitor and evaluate the way we think and the progress we make.
- Multi-store model of memory This is a model of memory by Atkinson & Shiffrin (1968) where they proposed memory consisted of three stores. The sensory register, where information is encoded and passed on to the second store, short term memory. Finally, if information is rehearsed and retained beyond short term memory it is then stored in the long term memory.
- Neuroscience The study of the brain and the nervous system.
- Peer review A rigorous process where literature, such as a research paper, is reviewed by experts in the same field to ensure high quality prior to publication.
- Practitioner research This refers to research carried out by people working in that specific field, so for example teachers conducting research into education in the setting and context of their classroom. This in contrast to full time academics that conduct research to then share with others in that field.
- Procedural memory A type of long term memory that we use on a daily basis, without consciously realising that we do because we know it so well and is linked to automacy.
- Redundancy effect Coined by Peter Chandler and John Sweller, this occurs when students are presented with extra information that is not relevant to their learning. This can also occur when students are exposed to the same information in different formats and can overload their memory, for example a powerpoint slide that contains icons that linked to the subject content (something I have been very guilty of including previously!).
- Remote learning Teaching and learning that takes places out of the physical classroom. This is not in reference to a homework task but instead teaching and learning online in the virtual classroom.
- Research summary This is when a research paper or series of research papers, studies and/or journals are summarised in one shorter and concise document.
- Responsive teaching Linked to formative assessment responsive teaching involves responding to students by asking questions, providing feedback and support all with the aim to support student progress with their learning.
- Retrieval practice The act of recalling information from long term memory in order to

enhance and improve long term memory. This is a teaching and learning strategy, not an assessment strategy although high stakes testing does involve the act of recall.

- Retrieval cues Cues and prompts to aid retrieval and recall. The prompts can include images, key terms or sentence starters. This makes the act of retrieval easier to do.
- Retrieval strength Retrieval strength refers to how accessible (or retrievable) information is, this is taken from the work of Bjork and Bjork (see New Theory of Disuse).
- Retrieval induced forgetting Retrieval-induced forgetting is a memory phenomenon where remembering specific information can lead to forgetting of other information in memory. To combat this we simply ensure that all of the essential information we want students to remember and not forget is tested regularly with retrieval practice.
- Rosenshine's Principles of Instruction This is based on the work of Barak Rosenshine. Rosenshine wrote about ten key principles that he argues underpin an effective approach to instruction in lessons. The principles include review, questioning and modelling.
- Schema This refers to how much we already know and how we explain the links between them.
- Semantic memory Our knowledge base or our own encyclopaedia of facts, information, words and concepts. Knowledge that Rome is the capital of Italy is semantic, my memories of eating gelato at the Trevi fountain as episodic.
- Short term memory This refers to immediate memory where storage is limited both in terms of capacity and duration. This term was more widely used before the introduction of the 'working memory' concept.
- Storage Strength Storage strength is how well learned something is, taken from the work of Bjork and Bjork (see New Theory of Disuse).
- Spaced practice See distributed practice above.
- Split attention effect This can occur when students have to refer to two different sources of information simultaneously whilst learning material. This adds extra load to the already limited working memory.
- Spotlight effect This is another cognitive bias where individuals believe other people notice their behaviour more than they likely do. In the classroom context this can prevent some students from engaging in discussions and answering questions.
- Success criteria The criteria that we use to support students during the teaching and learning process, as well to evaluate their performance and learning too.

 Summative assessment The aim of summative assessment is to evaluate student learning at the end of a unit, term, course or year.

Synchronous instruction - Synchronous teaching and learning refers to students all learning at the same time but not in the same place, for example a Zoom lesson where students are in different locations but learning at the same time.

- Testing effect This is the term used in academic literature when referring to the benefits of self-testing/retrieval practice. Due to the negative connotations associated with testing and being high stakes the term retrieval practice is more commonly used as it is intended to be a regular low stakes teaching and learning strategy.
- TPACCK model I developed the TPACCK model (2019), previously known as the PCK model (1986) then TPACK model (2007), from the work of Arthur Schulman, Punya Mishra and Matthew J Koehler. TPACCK explains how teachers need to have strong knowledge and confidence in the following areas; technology, cognitive science, content (subject material) and pedagogy.
- Transfer This is the application of learned information, concepts or materials to a new different context, also known as the transfer of learning.
- Working memory Both short term and working memory refer to immediate memory, being limited in both duration and capacity; how much information can be held and for how long. Working memory is a term coined by Baddley and Hitch as they believed the concept of short-term memory was too simplistic.