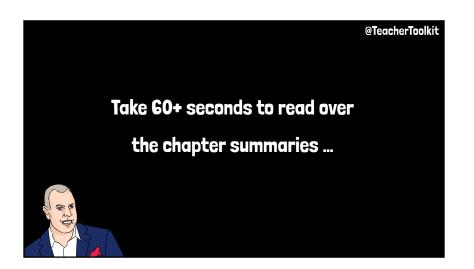




@TeacherToolkit

- 1. to clarify
- 2. to challenge assumption
- 3. for retrieval; to gather viewpoints
- 4. to predict what we need to re-teach.





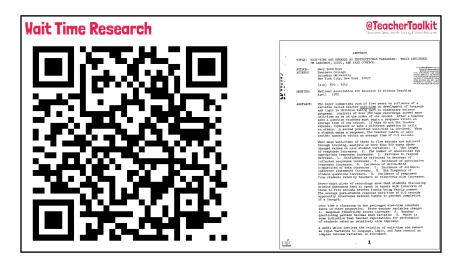
Wait Time as an Instructional Tool

@TeacherToolkit

- 1. Research at University of Florida 1972
- 2. Analysed 300 tape recordings; 5 years!
- 3. Typical teacher waits (mean) <1 second after a question
- 4. Short time = less richer response
- 5. Increase to >3 seconds = improved logic / language
- 6. From 300-700% response improvement!



Professor Mary Budd Rowe



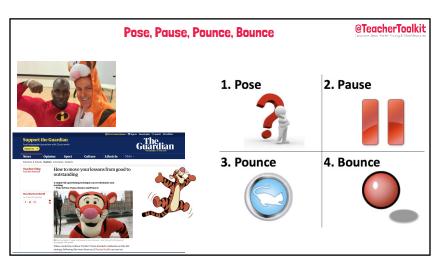
5 Reasons Why Wait Time Is Important

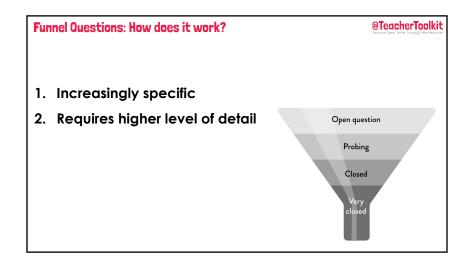
@TeacherToolkit

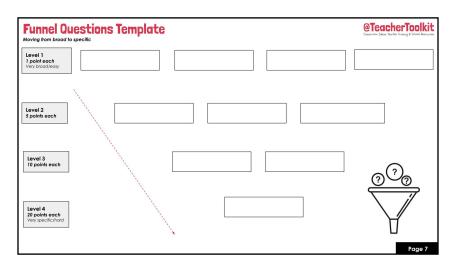
- 1. Students need uninterrupted periods of time
- 2. Students are still learning to communicate
- 3. They need additional time to understand what is said
- 4. They need to learn when to 'take a turn'
- 5. Motor / verbal skills are developing ...

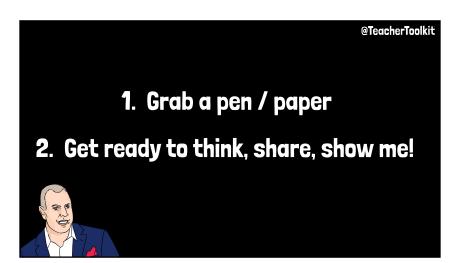
The wait for a second interval is usually shorter!





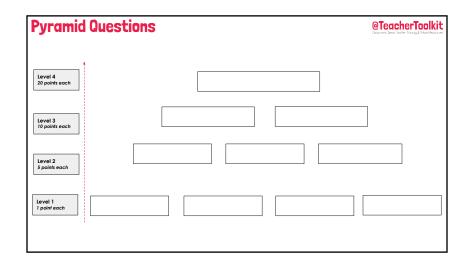


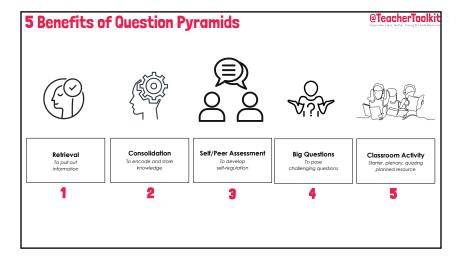


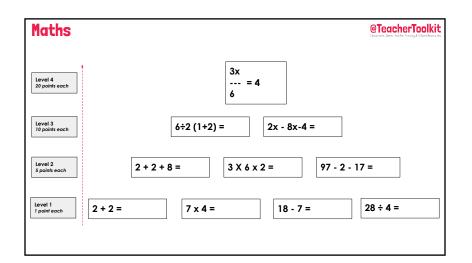


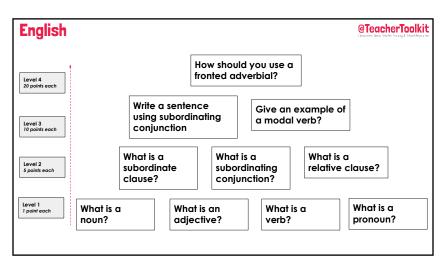
Funnel Example - Starting Vague 1. Name an invention that has significantly impacted daily human life? 2. Which invention has played a pivotal role in communication? Which invention is used to record information in a physical format? This object is often found in college and school classrooms ... It is used by both children and adults; it can easily fit in a pocket ... Can you think of an object that is commonly used for drawing? Can you identify an object that employs a rolling mechanism? Ballpoint pen!

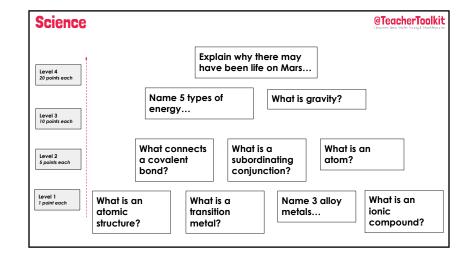
@TeacherToolkit





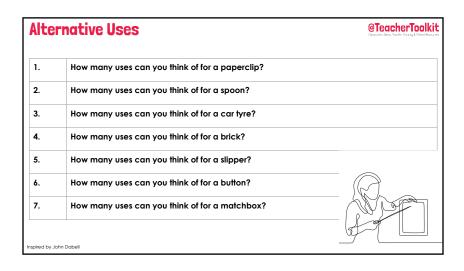




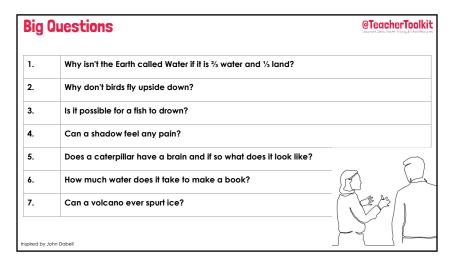




Wha	t if	@TeacherToolkit Classroom Idea: Teacher Trawny & Shool Moonvee
1.	What if there was only one religion?	
2.	What if you could only communicate in the style of a musical?	
3.	What if everyone had the same surname?	
4.	What if there was no colour blue?	
5.	What if all countries were islands?	
6.	What if schools had no playgrounds?	
7.	What if you could never turn left?	
nspired by .	ohn Dabell	

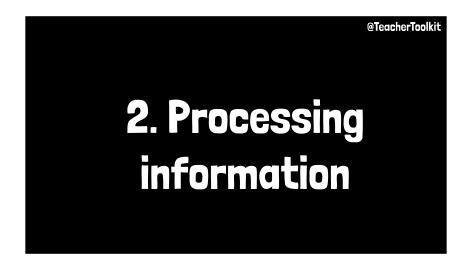


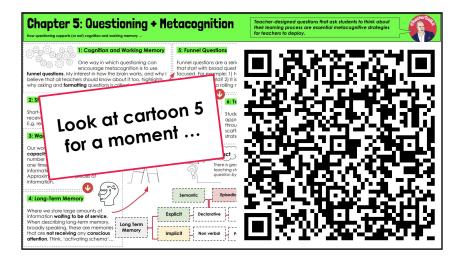




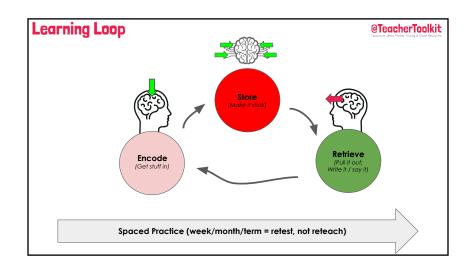
Wou	@TeacherToolkit Classicon, Meis, Teacher Training & Glook Monaures	
1.	Would you rather be a fly or a butterfly?	
2.	Would you rather have three eyes and two hearts or three ear	rs and two brains?
3.	Would you rather be an adjective or a noun?	
4.	Would you rather be able to speak 12 languages or play 12 in	nstruments?
5.	Would you rather have hands for feet or feet for hands?	
6.	Would you rather be covered in hair or have no hair at all?	
7.	Would you rather be fire or water?	
arpired by	John Dabell	

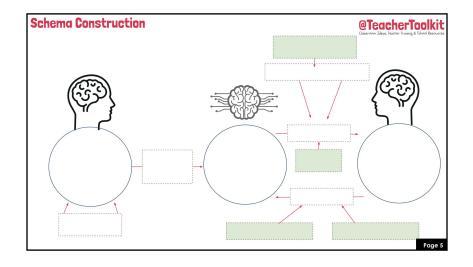


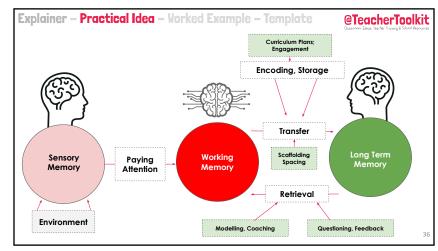




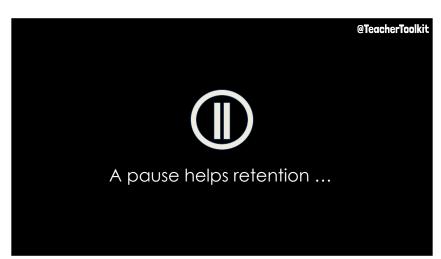
- 1. Can you see learning happen?
 - 2. How does learning happen?

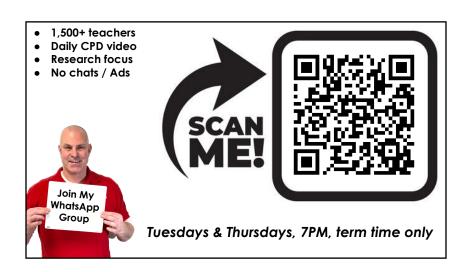


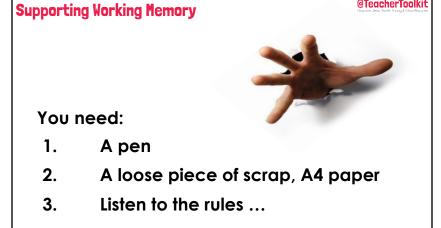




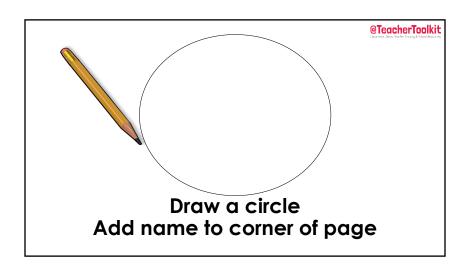


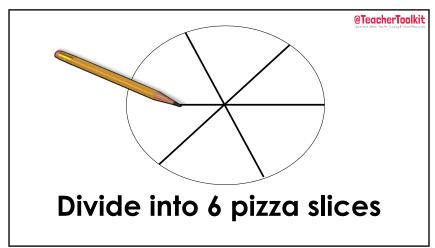


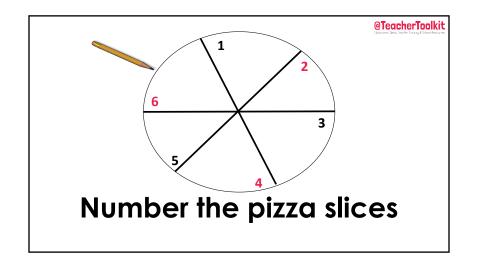




@TeacherToolkit



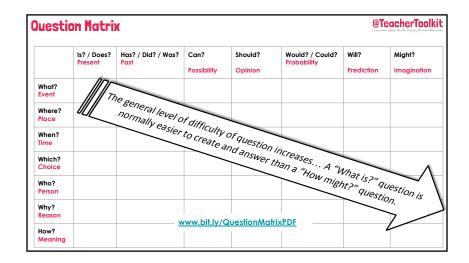


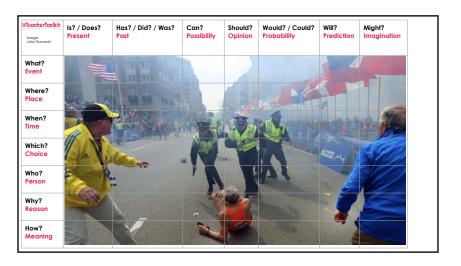






	Is? / Does?	Has? / Did? / Was?	Can?	Should?	Would? / Could?	Will?	Might?
	Present	Past	Possibility	Opinion	Probability	Prediction	Imagination
What? Event							
Where? Place							
When? Time							
Which? Choice							
Who? Person							
Why? Reason							
How? Meaning							

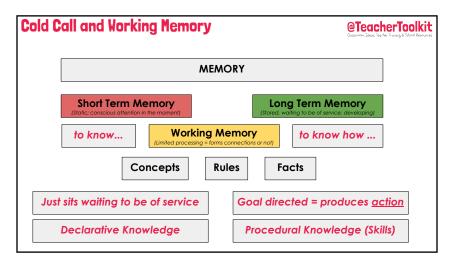




	Is? / Does? Present	Has? / Did? / Was? Past	Can?	Should?	Would? / Could? Probability	Will?	Might?
What? Event			Possibility	Opinion	Design a question here	Prediction	Imagination
Where?	Design a question here						
When? Time							Design a question here
Which? Choice			Design a question here				
Who? Person				Design a question here			
Why? Reason		Design a question here					
How? Meaning						Design a question here	





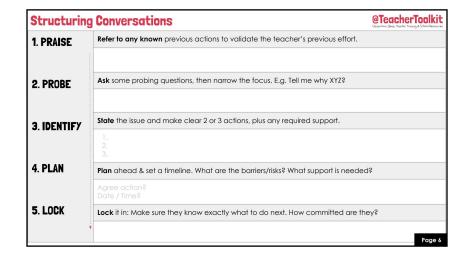


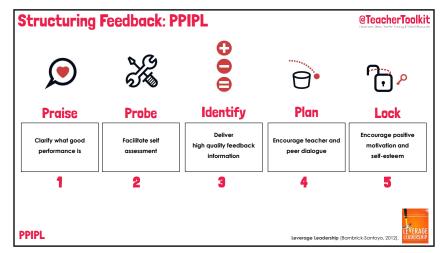
Wait Time Examples @TeacherToolkit

Hands down; no calling out; reply when asked

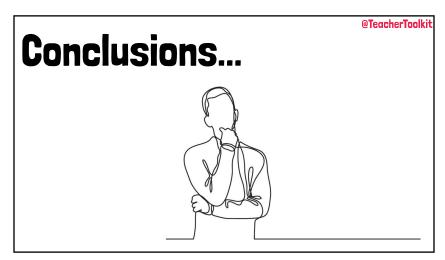
- 1. (1 second) Where is Mount Vesuvius?
- 2. (5 seconds) What is the 2nd planet in the solar system?
- 3. (1 second) Recall the colours of the rainbow?
- 4. (5 seconds) Who is the current and last president of USA?

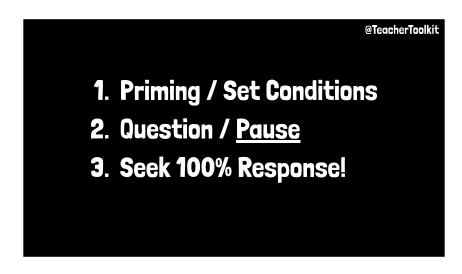


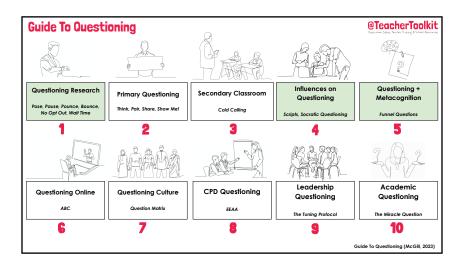


















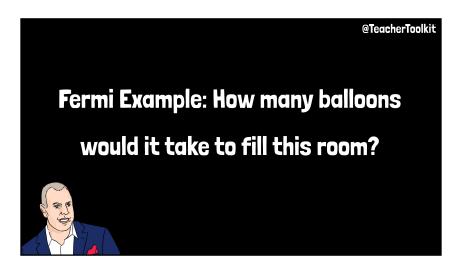






@TeacherToolkit
FERMI QUESTIONS

Grab a pen / paper
 Get ready to think, share, show me!



Fermi Examples

@TeacherToolkit

- 1. How many teachers could you fit inside this entire room?
- 2. How many students would it take to surround your college if they held hands?
- 3. How many 16 year olds are there in [your town / city]?
- 4. How many peas would you need to fill a bath?
- 5. How many exercise books could you stack on your kitchen table?
- 6. How many hours does a teacher sleep during the working week?
- 7. How many marshmallows would it take to cover your classroom floor?
- 8. How far does a bee fly each day?
- 9. How many people are airborne over the UK at any one moment?
- 10. If we all stood on top of each other's shoulders, how tall would the pile be?

@TeacherToolkit

If The Answer Is

If The Answer Is

Pose the answer first = Hypophora

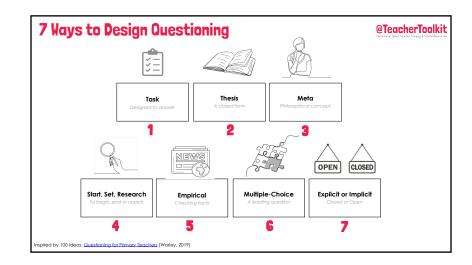
Originates from the Roman orator, Quintilian = used to verify the truth

- 1. Answer = Summative and Formative
- 2. Question = Give me two forms of assessment?
- 3. Answer = Venus
- 4. Question = What is the 2nd planet in the solar system?
- 5. Answer = Catherine of Aragon
- 6. Question = Who was the first wife of Henry VIII
- 7. Answer = Cardiff
- 8. Question = What is the capital city of Wales?
- 9. Answer = 135,000
- 10. Question = What is the population of Wrexham?

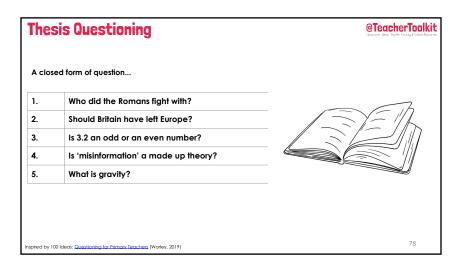


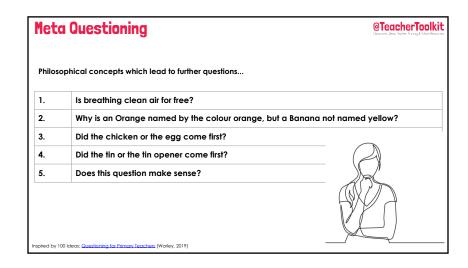


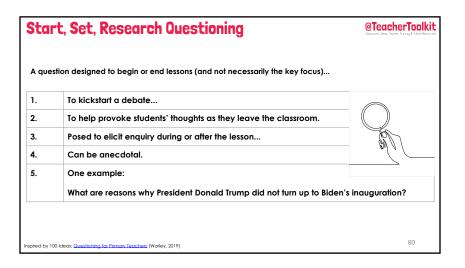
-08	uestion Types			@TeacherTool Closeroow Ideas, Nacher Trasing & School I		
	Туре	Structure	Your example question	Which scheme / Year group?		
1.	Task	Task orientated				
2.	Thesis	Closed essay				
3.	Meta	Philosophical discussion				
4.	Start, Set, Research	Building an argument				
5.	Empirical	Check facts				
6.	Multiple Choice	Retrieval (Desirable difficulty)				
7.	Implicit or Explicit	Open or closed				

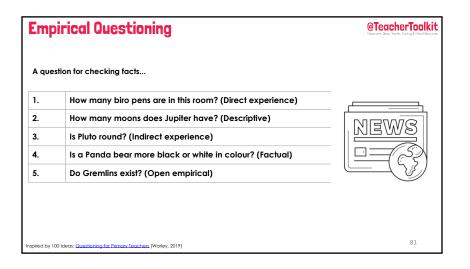


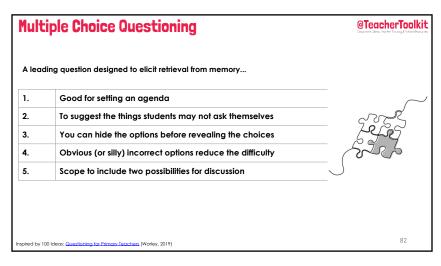
A question with a task designed to answer it... 1. How many pockets are there on a snooker table? 2. Why does the Earth rotate through night and day? 3. What would happen if an empty coffee cup fell off from a table onto the floor? 4. What happens to the water in a bathroom sink when you place your hand into it? 5. Can you walk from London to Berlin?

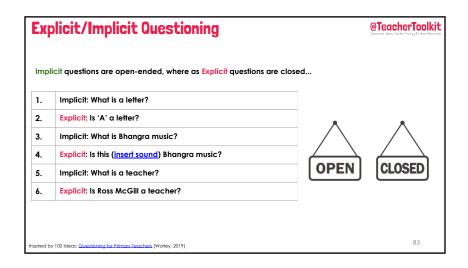










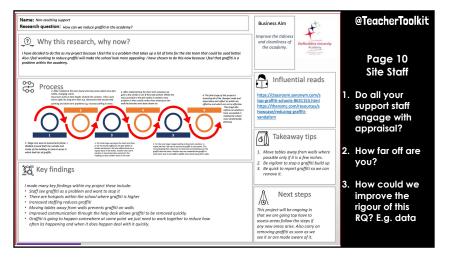


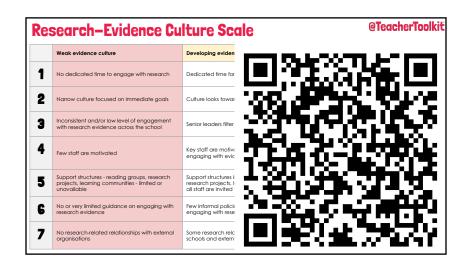


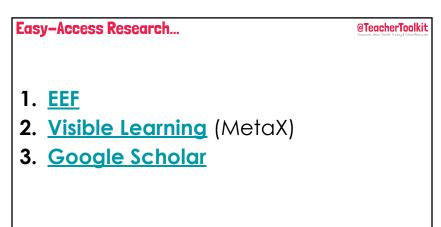


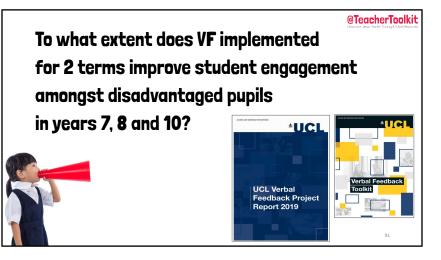


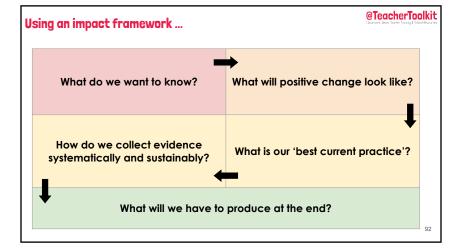




























Ross M. McGill works with teachers across the world and curates one of the most popular education blogs in the world (16M readers). The Sunday Times listed him as one of the '500 Most Influential People in Britain'.

<u>Support@TeacherToolkit.co.uk</u>





