

Metacognition

Thinking about thinking Learning to Learn



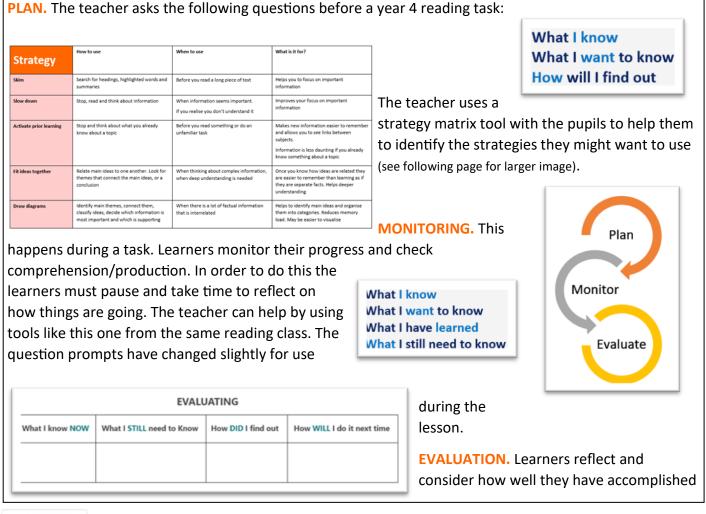
On a basic level, metacognition is about a pupil's ability to consider how they will undertake a task (plan), considering if the strategies are effective whilst working on it (monitor) and the overall success (evaluate).

Metacognition is when learners monitor and control their thought processes. They consider how they learn and are motivated to engage with/improve their learning.

This series of teacher resource cards will work alongside EEF recommendations and a link can be found below.

Example plan, monitor, evaluate

In this example we have used a year 4 reading lesson.





Metacognition further reading:

EEF Recommendations and research findings: https://educationendowmentfoundation.org.uk/evidencesummaries/teaching-learning-toolkit/meta-cognition-and-self-regulation/

'Metacognition in the Primary Classroom' by Tarrant & Holt is a recommended text and has been purchased for you to use on VLeBooks. If you do not have a log-in for this online library then please email scitt@sfet.org.uk.

| Strategy | How to use | When to use | What is it for? |
|---|---|--|--|
| Skim | Search for headings, highlighted words and summaries | Before you read a long piece of text | Helps you to focus on important information |
| Slow down | Stop, read and think about information | When information seems important. If you realise you don't understand | Improves your focus on important information |
| Activate prior learning | Stop and think about what you already know about a topic | Before you read something or do an unfamiliar task | Makes new information easier to remember and allows you to see links between subjects. Information is less daunting if you already know something about a topic |
| Fit ideas together | Relate main ideas to one another. Look for themes that connect the main ideas, or a conclusion | When thinking about complex information, when deep understanding is needed | Once you know how ideas are related they are easier to remember than learning as if they are separate facts. Helps deeper understanding |
| Draw diagrams | Identify main themes, connect them, classify ideas, decide which information is most important and which is supporting | When there is a lot of factual information that is interrelated | Helps to identify main ideas and organise them into categories. Reduces memory load. May be easier to visualise |
| This strategy evalue want to use. The ye | This strategy evaluation matrix is a tool a teacher can use with the pupils for them to identify strategies they might want to use. The year 4 teacher in this example has listed how | use with the pupils for them to ic sted how | lentify strategies they might |



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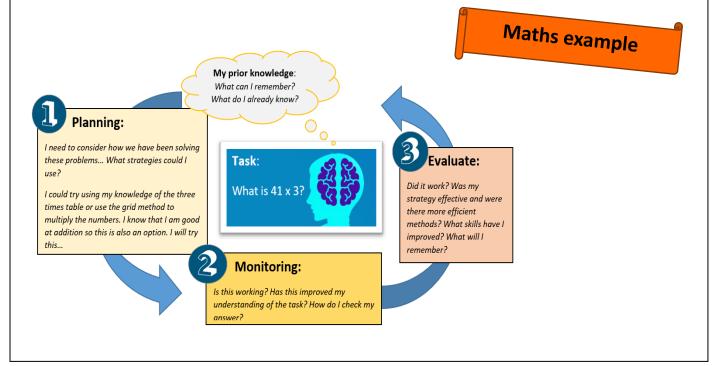
Teachers should acquire the professional understanding and skills to develop their pupils' metacognitive knowledge

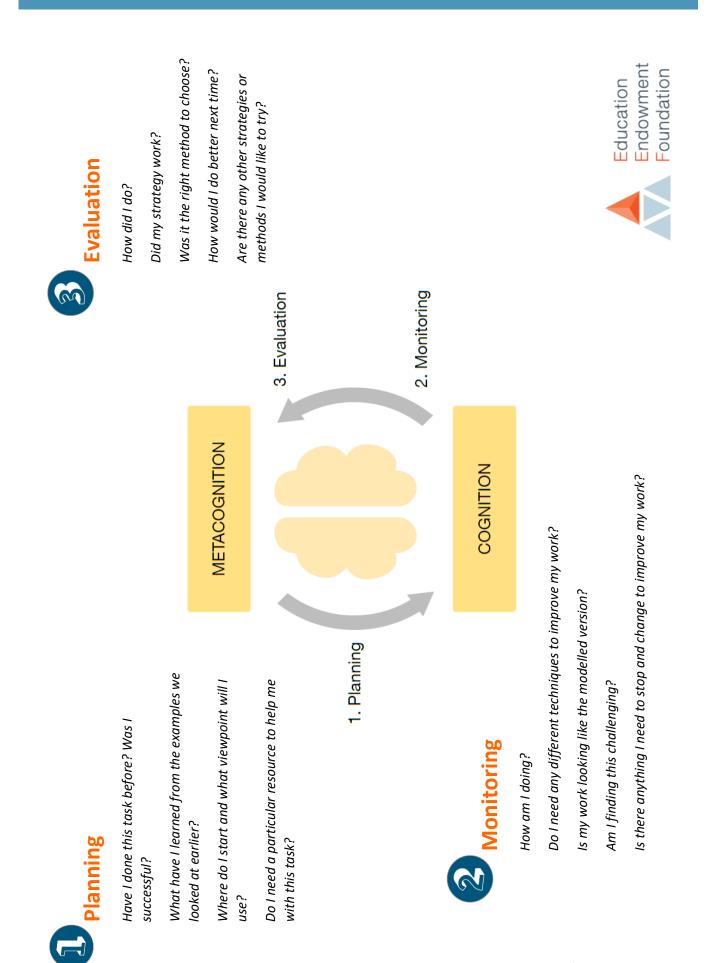
We hope to help this recommendation through SCITT/SFET training and through our collaborative learning community. **We want to hear from you** – send in great examples of the recommendations in action in your classroom and we will post examples on the SCITT website.

Keep prompting your pupils to be aware of their thinking

Combine explicit input with interactive questioning. Get pupils to think about strategies that they could use:

- What strategies do you use when solving a problem like this?
- What should we pay careful attention to?
- Can you show me your working out







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Explicitly teach pupils metacognitive strategies, including how to plan, monitor and evaluate their learning

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EEF provide a seven-step model for explicitly teaching metacognitive strategies. This can be applied to all ages and subjects (EYFS upwards). See next page for another example.

Here is an example using History in a KS2 classroom (NC link: a study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066):

| | it strategy 3. Modelling of ruction learned strategy | 4. Memorisation of strategy | 5. Guided practice | 6. Independent practice | 7. Structured reflection |
|--|---|---|---|---|--|
| practice quiz tofishbonrevisit recentdiagramlessons on Thehelp toBattle of Britain.ideas, ccause acause aThe teachereffect. Tmakes notes onthen be | is how a uses the notes made on the made on the board to model organise one part of the fishbone diagram. This will used to The teacher talks through this as they made the back of the talks they made the talks talks they made the talks ta | The teacher tests pupils to see if they have understood and can recall how to use this strategy (and its main purpose). Questions Discussion | The teacher models one further part of the fishbone diagram to the whole class and asks the pupils to volunteer their ideas | Pupils complete their own fishbone diagram of <i>The</i> <i>Battle of Britain</i> | Pupils are encouraged to reflect on how useful the model was. Did it work? Was it appropriate ? How successfully did they apply it? Can they see how they will use this again in the future? |

| It is extremely important that the foundations of metacognition are effectively established. In EYFS and KS1 explicitly modelling thinking out loud is crucial to develop helpful thinking strategies upon which more complex metacognitive strategies. Developing thinking aloud skills (metacognitive strategies) in the EYFS | 2. Explicit strategy 3. Modelling of learned 4. Memorisation of 5. Guided practice 6. Independent practice 7. Structured reflection | on in the teacher lays out increte land green circle and green circle and green circle and green circle and green | - We want to hear from you – send in great examples of the recommendations in action in your classroom and we will Education |
|--|---|--|--|
| It is extremely important that the develop helpful thinking strategie Developing thinking aloud skills (n | 1. Activating prior knowledge instru | The teacher initiates discussion in talk partners about learning. <i>Why do we come to</i> <i>what doe</i> <i>school?</i> Teacher listens to discussions and brings together to delve deeper e.g. <i>What do you want</i> <i>to learn? What is</i> <i>learning</i> <i>to learn?</i> <i>to learn? What is</i> <i>learning</i> <i>to learn?</i> <i>to learn?</i> | C SCITT We want |

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