USING WORKED EXAMPLES TO SUPPORT HIGH QUALITY TEACHING The FAME approach



Worked examples are a form of modelling, providing pupils with a step-by-step demonstration of a given task, such as tackling a complex problem in science. They can support learning by reducing the burden on pupils' working memory, increasing the likelihood that they will be able to remember the strategy and tackle future problems.

FADING

Fading describes the process of gradually reducing and removing elements of full worked examples.

Research suggests that removing the steps in the solution in reverse order (backwards fading) provides greater support for novice pupils.

An awareness of the prior knowledge of your pupils is vital; removing the scaffold too guickly or providing it when it's no longer needed, can hinder learning.



Independent

practice

What's the

correct solution?

What's wrong with

this method?

ALTERNATION

Rather than using a collection of worked examples together at the beginning of a lesson, alternate these with opportunities for pupils to complete a similar problem using an 'I do, you do' format.

Once they have developed confidence, add variation or additional complexity to the examples, then repeat the cycle.



• EEF: Guidance l do Report:

Metacognition and self regulated learning. **Recommendations** 2, 3 and 4

FURTHER READING



• EEF Guidance Report: Improving Secondary Science. Recommendations 2 and 4



• EEF Review of the evidence: Coanitive Science approaches in the classroom. Aspect 4: managing cognitive load



• Sweller (2006). The worked example effect and human cognition.

MISTAKES Μ

Once pupils have developed a good understanding of the topic, including mistakes in the worked examples can provide further challenge.

Supporting pupils to explain why incorrect solutions are wrong can help them to develop a deeper understanding than when they solely consider correct solutions.

An awareness of the confidence and competency of your pupils is vital. Introducing incorrect worked examples too early can embed misconceptions.

EXPLANATION Ε

To help pupils understand how and why the worked example has been used, initially, teachers should model their thinking using a 'Think Aloud' process. This can involve completing the worked example verbally, describing how and why they are tackling each stage of the problem.

Pupils should also be encouraged to reflect on the worked example and explain to themselves why each step has been used, helping them make sense of the modelled solution. Explanation prompts or peer-topeer explanation can facilitate this.

The next thing I do is this because ...



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