

# Creating Reasoning Routines, Building Problem-Solvers in Y5 & Y6

*Online Course with Gareth Metcalfe*

## **Session 1: Whole-Class Routines, Deconstructing Word Questions**

*Tuesday 19<sup>th</sup> September 2023, 1:15pm-2:45pm*

In this session, we will consider how to set classroom norms that ensure all children participate fully in reasoning. This will include mass participation, the deliberate use of silence, modelling and checking for understanding. Then, the 'slow reveal' technique will be shown for breaking down word questions. We will see how this focuses children's thinking on the structure of a question and it provides more open-ended opportunities for questioning.

## **Session 2: Reasoning Throughout Knowledge Acquisition**

*Tuesday 14<sup>th</sup> November 2023, 1:15pm-2:45pm*

We will start by sharing outcomes and developing the ideas from session 1. This will include writing sequences of questions to gradually increase the challenge in answering worded questions. Then, we will consider the different ways that reasoning can be built within sequences of lessons. This will include spotting misconceptions, visual representations, explaining patterns in sequences of questions and questions with multiple answers.

## **Session 3: Building All Children as Problem-Solvers**

*Tuesday 23<sup>rd</sup> January 2024, 1:15pm-2:45pm*

In this session, a coherent approach to teaching and learning in problem-solving will be shared. We will consider how to activate the relevant prior knowledge, give children initial success and then how problem-solving tasks can be introduced. This will ensure that all children engage in meaningful problem-solving in all areas of maths. We will look at how problem-solving can be built right across the UKS2 curriculum.

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