

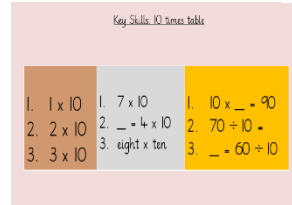
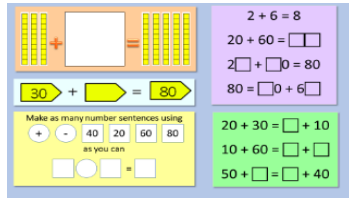


The three areas of the maths curriculum

Fluency - Reasoning- Problem Solving

The main aims of the Mathematics Curriculum are at the heart of everything we do.

How can we support children in becoming fluent?



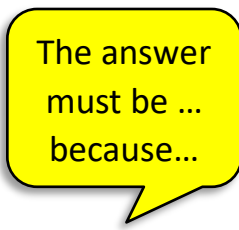
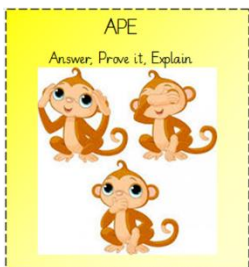
Using manipulatives/ apparatus. For example Numicon is used here to support children's fluency of number bonds

Providing varied practice opportunities and presenting questions in a variety of ways to aid fluency. For example these questions present a range of 'missing box' tasks to develop

Using daily Key Skills session focusing on developing fluency in key maths skills. For example these questions develop children's mental addition fluency.

Develop children's times table knowledge. For example by using Times Table Rockstars to develop quick

How can we support children in developing their reasoning skills?



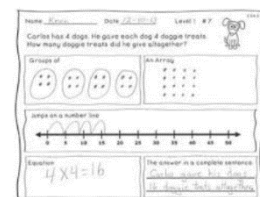
Using the APE approach (Answer, Prove it, Explain) to encourage children to explain

Provide opportunities for partner talk to encourage children to verbally reason.

Provide reasoning answer stems so children begin to use mathematical language.

Asking a variety of higher level Blooms questions to encourage children to reason.

How can we support children in developing their problem solving?

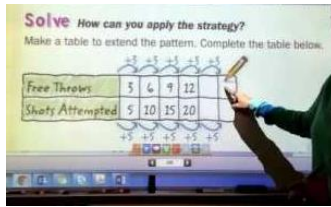


07.09.18

L.O. I can solve problems involving Roman Numerals

Let's try solving a problem together:

Jack says, "I know smaller numbers have less letters in Roman Numerals because one is I which is just one letter." Is Jack correct? Explain how you know.



Ensure all lessons have problem solving elements.

Provide a range of ways to present problems so that children have experience of approaching problems in

Give children a range of strategies to problem solve such as using a drawing or model