Stops

The Big Picture

A3 Gold Bars

NC Objectives

- add and subtract one-digit and two digit numbers to 20, including zero
(Addition and subtraction Year 1)

Recommended for year 1
Strategy A - Act it Out/Make a Model. Children will solve the problem by physically interacting with it

Stickability

Children add and subtract two single-digit numbers and count on or back to find the answer (ELG 11)

solve problems with addition, using concrete objects and pictorial representations (year 2: + and -)

Key Questions

Which pile should we move bars from first? Why?

Which pile has the most bars?

Which pile has the least bars?

How many bars are there in total?

Resources

Use lego or other similar bricks to represent the gold bars.

Problem based learning

When all piles are the same size, this is a good opportunity to revise equal sharing and multiplication by repeated addition.

Children should be encouraged to use a "trial and error" approach and working together in pairs or small groups.

LEARNING SEQUENCE

HOOK
Tell children that a pirate has some gold bars but he has a problem with them. Can we help him?

Teacher Led
Introduce the PitSTOP 2 problem to the children and discuss how Pirate Pete can split his gold up into piles. Model making 2 and 3 piles. Are there any other equal piles that he can make?

Student Led
Allow children time with 24 blocks to see what different equal piles they could be split into.

Support: PitSTOP 1

Teacher Led
Show PitSTOP 3 on IWB. Explain that Pirate Pete has a problem and model how to move a block to solve the problem. Children to work in pairs to solve PitSTOP 4.

AFL & Independent
For your assessment question, show the children PitSTOP 5 on the board, explain that this time there are two moves.
If children Go to question 6 and 7
If children cannot do it, support them with problem 5 or go back to PitSTOP 4.

PLENARY
How did you solve the problem?

Did you make a model or was the model 'in your head'?