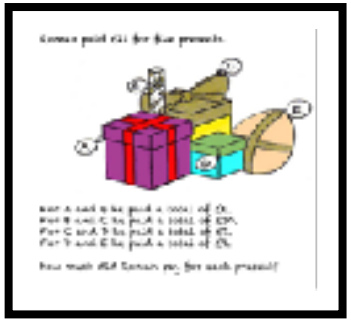
D5 Aisha's Birthday

The Big Picture

Recommended for Year 5

Strategy D – Make a List or Table.
Children to organise their work into lists or tables.



NC Objectives

To reason mathematically by following a line of enquiry (National Curriculum aims number 2)

Stickability

Pupils practise solving varied addition and subtraction questions (year 3, addition and subtraction, notes and guidance)

Key Questions

How can we organise our work?

What clues do we have?

If A + B equals £7, what could they be? What does this mean that C equals if B + C = £10?

How can we check using the total?

Resources

Copied sheets of problem

Large copies of table for pupils if needed.

Problem based learning

Children can set up a table for each of the values for presents A–E with a column for the total. You can pick an trial for A, e.g. 5, which means that B must be 1, as A and B make 6. This can then be followed through the table and the total can be checked to see if it is £21.

LEARNING SEQUENCE

HOOK

Ask the children if they have any pet dogs. Tell them this problem is about a man called Ray and his dogs.

Teacher Led

Begin at PitSTOP 3, asking the children what A and B could be and entering into the table. As a trial, A could be £1 and B is £6, meaning that C must be £4. The sum of these totals is £11, so that cannot be correct. Repeat with new trials and solve as a whole class.

Student Led

Show PitSTOP 4 and explain the task before allowing children time in pairs to discuss and complete the task, encouraging them to record trials in the table.

Support: PitSTOP 1 or 2
Extension: write your own clues for a partner to solve.

Teacher Led

Review PitSTOP 4, sharing strategies and showing tables on the visualiser. Discuss and solve PitSTOP 5 as a whole class.

AFL & Independent

As pupils are ready, give out PitSTOP PitSTOP 6 for children to complete independently.

Support: continue with PitSTOP 4 or 5.
Extension: PitSTOP 7

PLENARY

Children to provide explanation to the main problem, showing their work on the visualiser.

Discuss and solve PitSTOP 7.