

Maths - Year 2

Pattern and Algebra 6: Logic

Key Vocabulary

Pattern	A set of ordered numbers, shapes or objects.
Systematic	Working with a fixed plan in a methodical way.
Attribute	A quality, feature or characteristic of someone or something.
Group/set	Numbers, objects or shapes organised based on their attributes.
Subset	A part of a larger group of related things.
Vocabulary related to size	Thin, thick, large, small, double, single.
Rule	An instruction or fact to follow when solving a mathematical problem.
Vocabulary related to possibility	Cannot be, always, sometimes, never.

Mathematical Skills

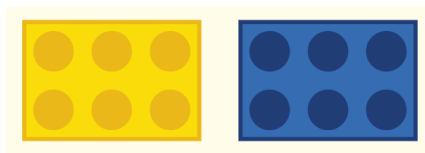
- Recognise that it is important to be well organised and to work systematically.
- Make a general statement after noticing something regularly happening.
- Develop ways of recording systematically and also use conventional organisations e.g. an ordered list or table.
- Begin to understand a general statement and can find particular examples to fit a rule.

Mathematical Methods

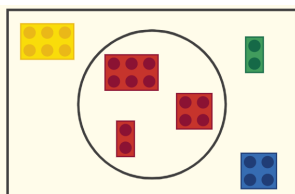
- Using attributes to identify a specific brick e.g. colour, thickness, width, number of 'bumps'.



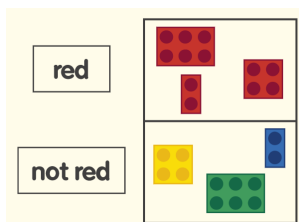
- Playing a 'one difference' game i.e. choosing a brick that only has one different attribute to another.



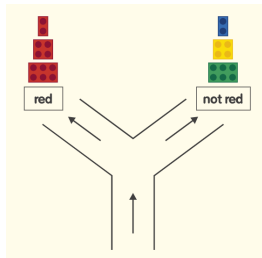
- Venn diagrams and the 'not' set e.g. 'red', 'not red'.



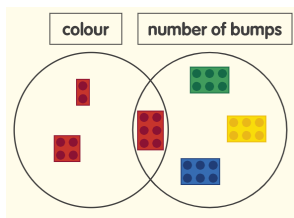
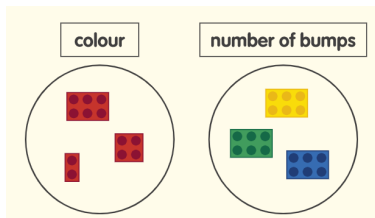
- Introducing a Carroll diagram.



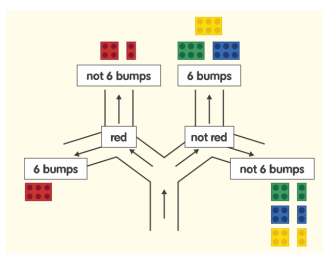
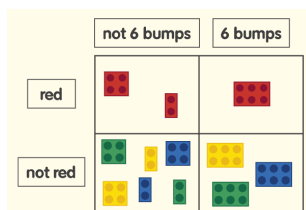
- Tree diagrams.



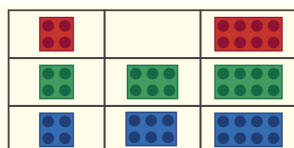
- Sorting the bricks into intersecting sets.



- Carroll diagrams with two attributes.

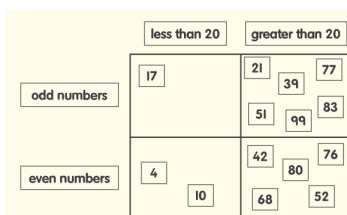
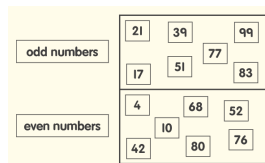


- Tree diagrams with two attributes.



- Using a grid or table to organise sets.

- Sorting numbers into sets on diagrams.



Can you..?

- I have chosen a number. Can you work out what the number is by asking me questions?

- Can you sort the numbers and put them on this diagram?

