Maths - Year 2

Geometry 1: Making and classifying polygons
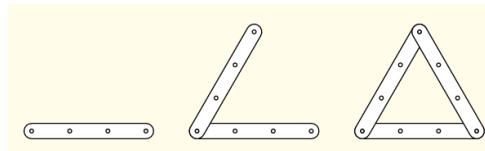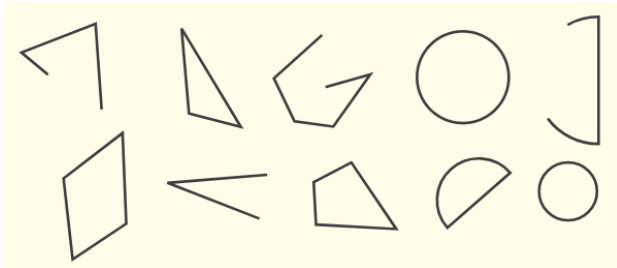
Key Vocabulary

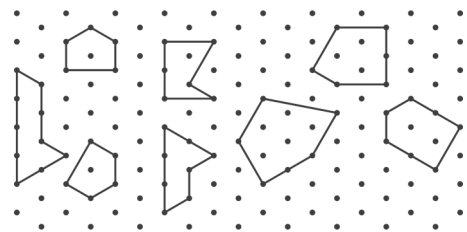|	
Shape names	Square, oblong, triangle, circle, rectangle, hexagon, heptagon, octagon, pentagon, half-circle, semicircle.
Straight	To move in one direction only or a line that is level.
Curved	A line or side with a bend.
Angle	An amount of turn or rotation.
Sides	Lines that join together to make a shape.
Vertex/Vertices	A point where two sides meet in a flat shape, or a point where three or more edges meet in a 3D shape.
Congruent	Identical.
Polygon	A flat, geometric shape with straight sides.
Non-polygon	A flat shape with at least one curved side.

Mathematical Skills

- Describe a polygon in terms of number of sides and vertices.
- Describe a non-polygon as having at least one curved side.
- Sort polygons from non-polygons.
- Describe the number of sides and vertices in a pentagon, hexagon, heptagon or octagon.
- Identify and name (both regular and irregular) hexagons, pentagons, heptagons and octagons.
- Identify shapes which are congruent and shapes which are similar.
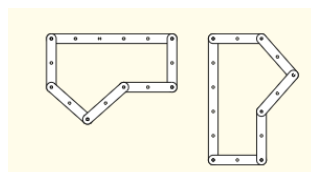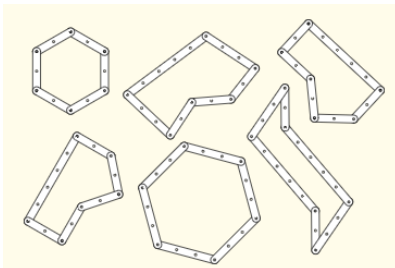
Mathematical Methods

- Introducing polygons and angles.
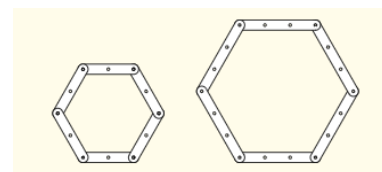
- Making and naming pentagons, hexagons, heptagons and octagons.

- Identifying polygons and recognising congruent and similar shapes.
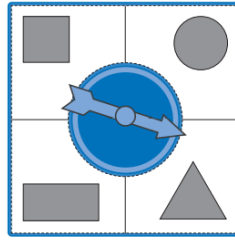
Congruent   Similar

- Identifying and classifying polygons and non-polygons. 'What am I?' - I am a polygon. I have four square vertices. All my sides are equal. What am I?

Can you..?

- Can you make a pictogram? Spin the spinner ten times. Show the shapes that you spin on your pictogram. Were there any shapes that you didn't spin?

- Can you make or draw three different polygons that have more than four sides? Which polygons did you make?

- Can you say which of these shapes are not polygons?