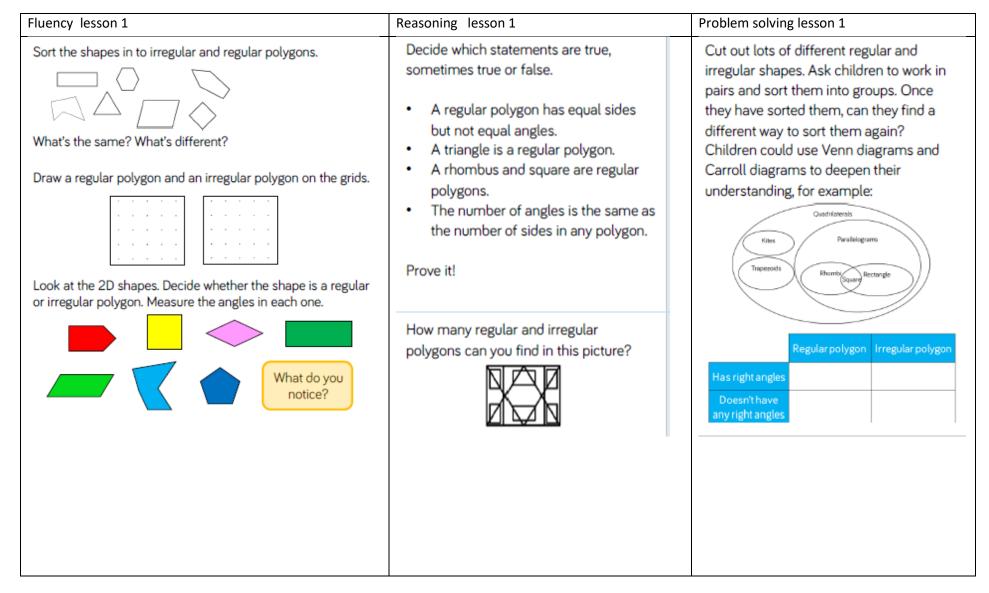
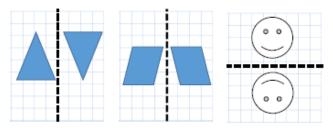
#### Properties of regular and irregular shapes



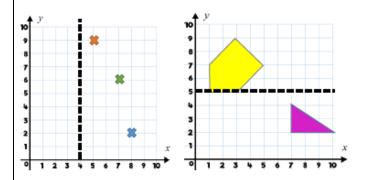
#### Fluency lesson 2 Problem solving lesson 2 Reasoning lesson 2 Albie says, Using different 3D solids, can you Look at the different nets. Describe the 2D shapes used to make them and identify the 3D shape. represent them from different views? Can your partner work out which representation goes with which solid? If two 3D shapes have the same number of edges, then For example, they also have the same Use equipment, such as Polydron, or 2D shapes to build the number of vertices. 3D solids being described. My faces are made up of a square and four triangles. · My faces are made up of rectangles and triangles. Do you agree? Can the descriptions make more than one shape? Explain why. Draw another dot on the nets so they have a dot on the Create cubes and cuboids by using Front view opposite face when the 3D shape is constructed. multilink. Can you draw these on isometric paper? Which part is difficult? Side view Would it be harder if you had to draw Plan view something other than squares or rectangles?

## Fluency lesson 3

Which of the images have been reflected in the mirror line?



Reflect the shapes and coordinates in the mirror line.



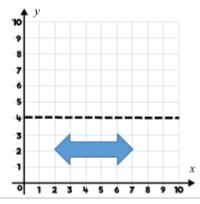
## Reasoning lesson 3



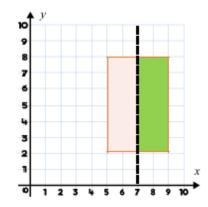
When you reflect a shape, its dimensions change.

Do you agree with Amina? Explain your thinking.

Reflect the shape in the mirror line.



# Problem solving lesson 3



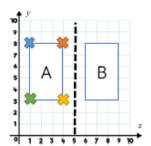
The rectangle is pink and green.

The rectangle is reflected in the mirror line.

What would its reflection look like?

### Fluency lesson 4

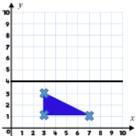
Shape A is reflected in the mirror line to position B. Write the coordinates of the vertices for each shape.



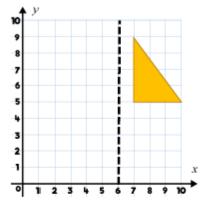
	Original Coordinate	Reflected Coordinate
*		
*		
*		
*		

Write the coordinates of the shape after it has been reflected in the mirror line.





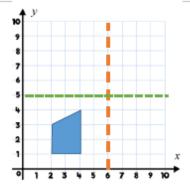
Reasoning lesson 4



Maggie reflects the shape in the mirror line.

She calculates the coordinates for the vertices of the reflected shape as:

Is Maggie is correct? Explain why. Problem solving lesson 4



This is a shape after it has been reflected.



The green mirror line is correct.

ate

The orange mirror line is correct.



Who is correct? Explain and prove it. What would the coordinates be of the original shape?