Canonbury Home Learning

Year 6 Maths

Developing activity

Lesson 2

LO: TBAT reflect shapes.

Success Criteria:

- 1. Copy the graph.
- 2. Write the shapes coordinates.
- 3. Draw and write the new coordinates of the reflected shape.

<u>Model</u>

Reflect / Reflection

A shape is reflected about a line when it is flipped over a mirror line.

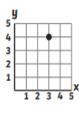


Every point of the shape is the same distance from the mirror line as the same point on the reflected shape.

Coordinates

Coordinates mark the location of a point on a coordinate grid.

The coordinates are written 4 in brackets in the format (x,y) 2 where x is how far along and 1 y is how far up.

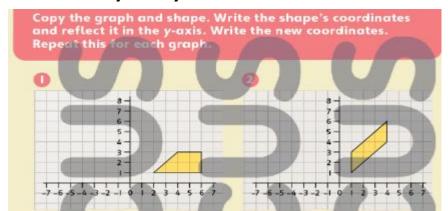


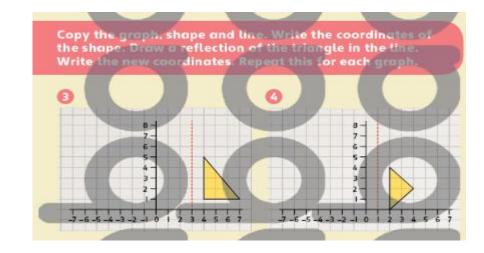
Axis / Axes

A coordinate grid has axes. **Y**The x axis is horizontal.

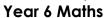
The y axis is vertical.

Now you try...





Canonbury Home Learning



Expected/ Greater depth activity

Lesson 2

LO: TBAT solve problems including reflection.

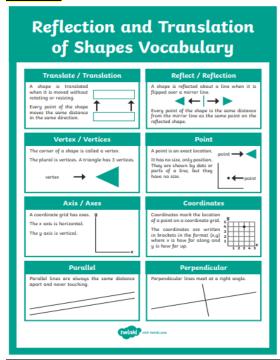
Task:

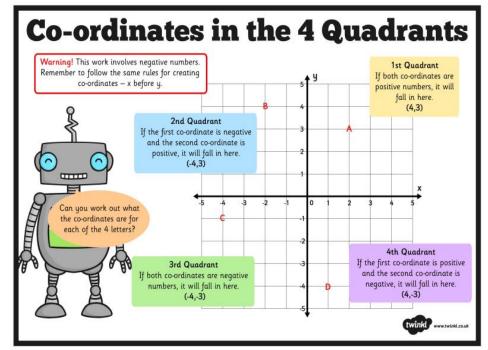
You are going apply your knowledge to solve several problems including reflecting shapes.

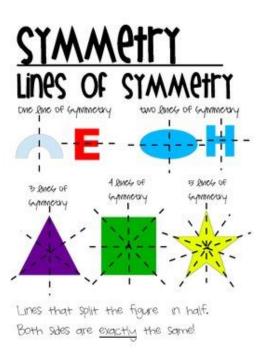
Success Criteria:

- 1. Revise your knowledge reflection.
- 2. Draw the grids and shapes.
- 3. Reflect in the correct quadrant, writing the new coordinates.

Recap:







Canonbury Home Learning

Year 6 Maths

Main activity

Complete at least 2 columns, more if you can!



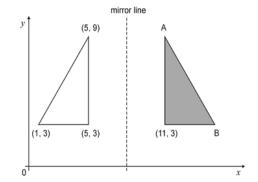
<u>Task 1</u>	<u>Task 2</u>		<u>Task 3</u>	Task 4
Practice Draw the graphs, write the coordinates of the shapes and then reflect the shape	Arithm 15	<u>etic</u> 98.31 ÷ 10 =	Problem Solving Task 1 Each of these shapes has one or more lines of symmetry. Draw all the lines of symmetry on each shape.	Reasoning Task 1 Rectangle ABCD is the result of a rectangle being reflected in either the x-or the y-axis.
writing the new coordinates.	16	72 × <u>63</u>	Draw an the lines of symmetry of reach shape.	Where could the original rectangle have been? Draw the possible original rectangles on the coordinate grid, and label the coordinates of each vertex.
7-6-5-4-3-2-1 Q 1 2 3 4 5 6 7	17	35.8 × <u>3</u>		Task 2 Annie has reflected the shape in the
3 8 1 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	18 19	2 ³ + 1 ² = 95% of 200 =	Task 2 Shade in the reflection of this shape. You may use a mirror.	y-axis. Is her drawing correct? If not explain why.
3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20	$2\frac{3}{5} + 1\frac{4}{5} =$	mirror line	5 4 4 3 2 1 1 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6
7-6-5-4-3-2-1 0 1 2 3 4 5 6 7	21	0.6 = ?		-5





Task 3

The shaded triangle is a reflection of the white triangle in the mirror line.

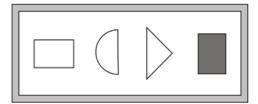


Write the co-ordinates of point A and point B.

B is (,)

Task 3

Here is a pattern on a window.



Draw how the pattern would look from the other side of the window.

