



Crosby Primary School

Mathematics Medium Term Plan Year 5 Summer Term

Unit 2 Position & Direction: Translation & Reflection (2 Weeks)

National Curriculum

- Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape is not changed.

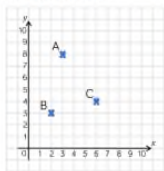
Times Tables

- Consolidate and practice all multiplication and division facts to 12x12 – any order, missing numbers, fractions.
- Use multiplication and division facts to derive associated facts.
- Develop multiplicative reasoning - links between multiplication, division and fractions

Ready to Progress

- 5NF–1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice.

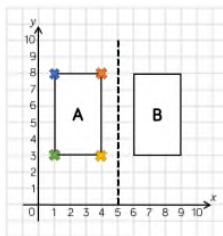
Translate each coordinate 2 down, 1 right. Record the coordinates of its new position.



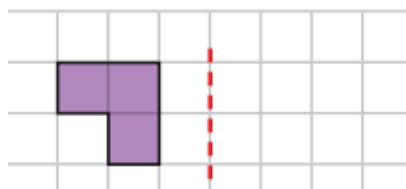
	Before translation	After translation
A	(3, 8)	
B		
C		

Concept Sequence

- Read and plot co-ordinates – in first quadrant, read x axis before y axis, use bracket notation (recap Y4)
- Problem solving with co-ordinates – use grid lines before moving to no gridlines. Find missing co-ordinates in shapes.
- Translation – focus on one vertex at a time. Note shape doesn't change size or orientation.
- Translation with co-ordinates
- Lines of symmetry - Recap lines of symmetry. Multiple lines of symmetry.
- Reflection in horizontal and vertical lines – use lines parallel to the axes and co-ordinates in the first quadrant. Use mirrors to aid. Extend to reflection with co-ordinates.

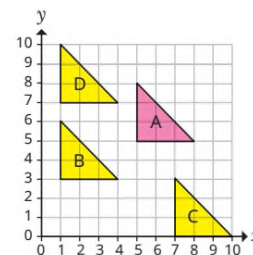


	Original Coordinate	Reflected Coordinate



Vocabulary

Up, down, forwards, backwards, sideways
 Across, next to, close, far
 Along, through, to, from, towards, away from
 Clockwise, anticlockwise, Horizontal, vertical
 Right angle, Straight line, plot, position, vertex/vertices
 Shape Names
 Translation, reflection, object, Image, Mirror Line, symmetry
 x-axis, y-axis, quadrant, co-ordinate



New Vocabulary

parallel, reflective symmetry

Planning Links

White Rose Scheme of Work:

<https://assets.whiterosemaths.com/new-schemes/Year%205%20Summer%20Block%20%20SOL%20Position%20and%20direction.pdf>

Power Maths, White Rose Maths, Maths No Problem, Aspire Maths

Resources

Grids, Mirrors, Working Wall
 Gordons Maths Games, Mathletics, TTRockstars
 BBC Super Movers
<https://www.bbc.co.uk/teach/supermovers/ks2-collection/zr4ky9q>

