



Crosby Primary School

Mathematics Medium Term Plan Year 4 Summer Term

Unit 7 Position and Direction: Co-ordinates and Translations (2 Weeks)

National Curriculum

- Describe positions on a 2D grid as co-ordinates in the first quadrant. Plot specified points and draw sides to complete a given polygon.
- Describe movements between positions as translations of a given unit to the left/right and up/down.

Ready to Progress

- 4G-1 Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant.

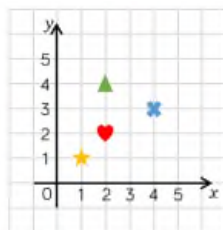
Times Tables

- Revise all times tables.

Ready to Progress

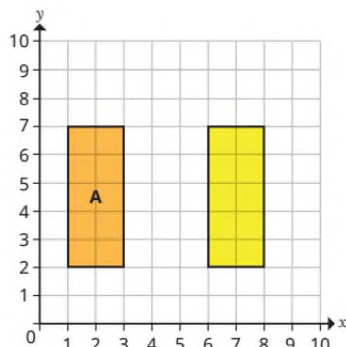
- 4NF-1 Recall multiplication and division facts up to 12x12, and recognise products in multiplication tables as multiples of the corresponding number
- 4MD-2 Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication.
- 4MD-3 Understand and apply the distributive property of multiplication

Describe the translation from:



Concept Sequence

- Describe position (co-ordinates first quadrant), read x axis before y axis, use bracket notation.
- Plot co-ordinates - draw on a grid
- Draw 2D shapes on a grid
- Translate on a grid – moves points and shapes, up/down, left/right.
- Describe translation on a grid - describe using left/right, then up/down – use sentence stems. Consider corresponding vertices.



I have translated rectangle A 3 squares to the right.

What mistake has Ron made?

Point A has been translated _____ squares to the left/right and _____ squares up/down.

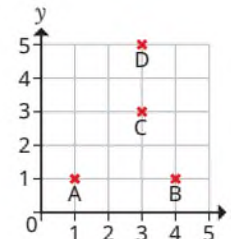
Shape A has been translated _____ squares to the left/right and _____ squares up/down.

Vocabulary

Position, over, under, underneath, above, below
Top, bottom, side, on, in, outside, inside
Around, In front, behind, front, back, beside, next to
Opposite, apart, between, Middle, edge, centre, corner
Direction, journey, route, left, right
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

New Vocabulary

Translation
Co-ordinates
Quadrant
X axis, y axis



Planning Links

White Rose Scheme of Work:

<https://assets.whiterosemaths.com/new-schemes/Year%204%20Summer%20Block%206%20SOL%20Position%20and%20direction.pdf>

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

Resources

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

