

Position and Direction: Maths : Year 4 : Summer Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To find, plot and describe coordinates on a grid.	Children will recap the features of coordinate grids (1st quadrant only), then plot given coordinates accurately in the 1st quadrant.	<ul style="list-style-type: none"> Can children name and identify the features of a coordinate grid? Can children find and plot given coordinates on a grid? Can children write coordinates in the first quadrant? 	<ul style="list-style-type: none"> Slides Worksheets 1A/1B/1C Connect Coordinates game (FSD? activity only) Dice (FSD? activity only) Counters (FSD? activity only)
Lesson 2	To plot specified points and draw sides to complete a given polygon.	Children will plot given coordinates on a grid (1st quadrant), then connect them in the order given to create polygons with their vertices plotted on a grid.	<ul style="list-style-type: none"> Can children plot a series of specified coordinates? Can children connect coordinates to make polygons? Can children visualise and predict the shape of polygons based only on a set of given coordinates? 	<ul style="list-style-type: none"> Slides Worksheets 2A/2B/2C Blank Coordinate Grid Find the Quadrilateral game (FSD? activity only) 2-D Shapes poster/table mat (FSD? activity only)
Lesson 3	To describe movements between coordinates on a grid as translations.	Children will learn how to translate coordinates on a grid, then practise this by translating polygons or compound shapes on a coordinate grid (1st quadrant only).	<ul style="list-style-type: none"> Can children describe the translation of a shape in terms of movement up/down/left/right? Can children use algebraic terms to describe the translation of a shape? Can children draw translations of a shape according to given instructions? 	<ul style="list-style-type: none"> Slides Worksheets 3A/3B/3C 3-D Letters Sheet (FSD? activity only) Blank Coordinate Grid (FSD? activity only)
Lesson 4	To find and plot coordinates on graphs to show linear relationships.	Children will consider the relationship between line graphs and coordinate grids, then read given sets of data, plotting their corresponding coordinates on grids. They will also write questions which can be answered by identifying sets of coordinates.	<ul style="list-style-type: none"> Can children express two corresponding values as a coordinate? Can children connect coordinates with a line to make a straight-line graph? Can children think of, and answer questions about data shown on a straight-line graph? 	<ul style="list-style-type: none"> Slides Worksheets 4A/4B/4C Blank Coordinate Grid A/B/C
Lesson 5	To solve problems using grids and coordinates.	Children will solve a variety of problems including word problems, where they will have to read or plot coordinates, translate coordinates or draw straight line graphs and read coordinates at points along the line.	<ul style="list-style-type: none"> Can children plot coordinates and draw lines to make shapes on a grid? Can children translate a shape on a grid accurately? Can children turn directly proportional data into coordinates on a grid? 	<ul style="list-style-type: none"> Slides Worksheets 5A/5B/5C Translation Table Mat (FSD? activity only)