Working in the Cartesian Plane

Small Steps

- Work with coordinates in all four quadrants
- Identify and draw lines that are parallel to the axes
- Recognise and use the line $y = x$
- Recognise and use lines of the form $y = kx$
- Link $y = kx$ to direct proportion problems
- **Explore the gradient of the line $y = kx$** (H)
- Recognise and use lines of the form $y = x + a$
- Explore graphs with negative gradient ($y = -kx, y = a - x, x + y = a$)

(including

Working in the Cartesian Plane

Small Steps

- Link graphs to linear sequences
- Plot graphs of the form $y = mx + c$
- **Explore non-linear graphs** (H)
- **Find the midpoint of a line segment** (H)

(H) denotes higher strand and not necessarily content for Higher Tier GCSE

Representing Data

Small Steps

- Draw and interpret scatter graphs
- Understand and describe linear correlation
- Draw and use line of best fit (1) & (2)
- Identify non-linear relationships
- Identify different types of data
- Read and interpret ungrouped frequency tables
- Read and interpret grouped frequency tables
- Represent grouped discrete data
- Represent continuous data grouped into equal classes
- Represent data in two-way tables

Tables and Probability

Small Steps

- Construct sample spaces for 1 or more events
- Find probabilities from a sample space
- Find probabilities from two-way tables
- Find probabilities from Venn diagrams
- **Use the product rule for finding the total number of possible outcomes** (H)

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