Straight line graphs

Small Steps

- Lines parallel to the axes, $y = x$ and $y = -x$ (R)
- Using tables of values (R)
- Compare gradients
- Compare intercepts
- Understand and use $y = mx + c$
- **Write an equation in the form $y = mx + c$** (H)
- Find the equation of a line from a graph
- Interpret gradient and intercepts of real-life graphs

(H) denotes Higher Tier GCSE content

(R) denotes 'review step' – content should have been covered earlier in KS3

Straight line graphs

Small Steps

- Model real-life graphs involving inverse proportion (H)
- Explore perpendicular lines (H)

(H) denotes Higher Tier GCSE content

(R) denotes 'review step' – content should have been covered earlier in KS3

Forming and solving equations

Small Steps

- Solve one- and two-step equations and inequalities (R)
- Solve one- and two-step equations and inequalities with brackets (R)
- Inequalities with negative numbers
- Solve equations with unknowns on both sides
- Solve inequalities with unknowns on both sides
- Solving equations and inequalities in context
- Substituting into formulae and equations
- Rearranging formulae (one-step)

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Forming and Solving Equations

Small Steps

- Rearrange formulae (two-step)
- **Rearrange complex formulae including brackets and squares** H

H denotes Higher Tier GCSE content

R denotes 'review step' – content should have been covered earlier in KS3

Testing conjectures

Small Steps

- Factors, Multiples and Primes (R)
- True or False?
- Always, Sometimes, Never true
- Show that
- Conjectures about number
- Expand a pair of binomials
- Conjectures with algebra
- Explore the 100 grid

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