

MATHEMATICS Y9 - TERM 2.1

I DEVELOP FLUENCY

- I can sketch linear graphs using the gradient and y-intercept.
- I can write the equation of a line parallel to a given line.
- I can solve inequalities accurately using algebraic methods.
- I can expand and factorise quadratic expressions for $a = 1$ and $a > 1$.
- I can plot quadratic functions by completing a table of values.

I REASON MATHEMATICALLY

- I can explain how the gradient affects the direction and steepness of a straight line.
- I can compare solutions to inequalities and show how they appear on number lines or graphs.
- I can describe how factorising links to solving quadratic equations.
- I can identify key features of a quadratic graph such as turning points and symmetry.
- I can justify whether a quadratic is suitable for factorisation



I SOLVE PROBLEMS

- I can form linear equations to write the equation of a parallel line.
- I can apply inequalities to represent real-life constraints and solve them.
- I can choose efficient methods to solve quadratic equations based on their structure.
- I can solve problems that require expanding or factorising quadratics in context.
- I can use quadratic graphs to estimate or check solutions.

I INTERPRET MATHEMATICALLY

- I can interpret straight-line graphs and identify gradient and intercept from the sketch.
- I can represent inequality solutions on graphs or number lines.
- I can read and compare multiple quadratic graphs to identify differences.
- I can use tables of values to understand the shape of a quadratic function.
- I can analyse how graph features relate to the solutions of equations.

I READ

- [Straight line graphs - Straight line graphs - Edexcel - GCSE Maths Revision - Edexcel - BBC Bitesize](#)
- [Inequalities - Inequalities - Edexcel - GCSE Maths Revision - Edexcel - BBC Bitesize](#)
- [Quadratic equations - Solving quadratic equations - Edexcel - GCSE Maths Revision - Edexcel - BBC Bitesize](#)
- [Quadratic graphs - Other graphs - Edexcel - GCSE Maths Revision - Edexcel - BBC Bitesize](#)

I LEARN

- Expanding and factorising quadratics
- Solving quadratic equations
- Plotting and interpreting quadratic functions
- Straight line graphs
- Inequalities (algebraic and graphical)