

## Algebraic Expressions

 Factorising
Negative and fractional indices Surds Rationalising denominators

Equations and Inequalities
Linear simultaneous equations Quadratic simultaneous equations Simultaneous equations on graphs
Linear inequalities
Quadratic inequalifies Inequalities on graphs Regions

## Circles

$\checkmark$ Midpoints and perpendicular bisectors Equation or a circle Intersections of straight lines and circles Use tangent and chord properties Circles and triangles

## The Binomial Expansion

 The binomial expansion Solving binomial problems Binomial estimation


## Vectors

Vectors
Representing vectors Magnitude and direction Position vectors Solving geometric problems Modelling with vectors

## Differentiation

Gradients of curves $\checkmark$ Finding the derivative $\checkmark$ Differentiating $\mathrm{x}^{\mathrm{n}}$ $\checkmark$ Differentiating quadratics $\checkmark$ Differentiating functions with or more terms Gradients, tangents and normal


