



# KS3: Year 9

Year 9

Arithmetic procedures with integers, decimals and fractions

### Laws of indices

$$a^m \times a^n = a^{m+n}$$

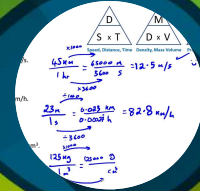
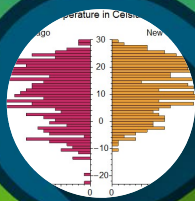
$$a^m \div a^n = a^{m-n}$$

$$(a^m)^n = a^{m \times n}$$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

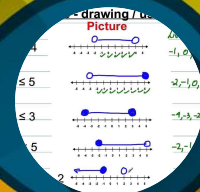
Understanding multiplicative relationships: fractions and ratio

Understanding multiplicative relationships: percentages and proportionality



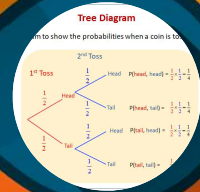
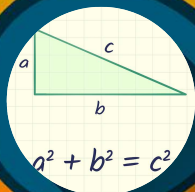
Statistical representations, measures and analysis

Perimeter, area and volume



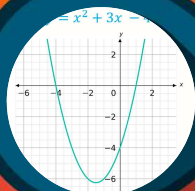
Graphical representation of linear relationships

Geometrical properties: Similarity and Pythagoras' theorem



Probability Sequences

Expressions and formulae



Trigonometry Standard Form

Polygons

To GCSE...

