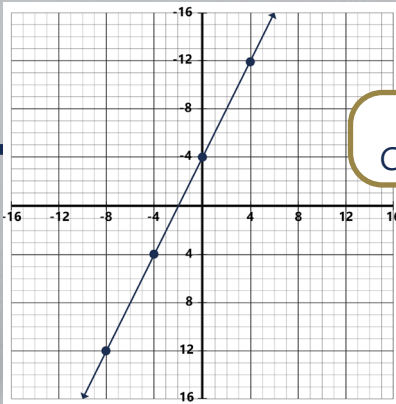


Year
9

Maths - Higher

Numbers, factors, rounding and algebra review



Coordinates, linear graphs -
Collecting and representing data

META-THINKING

Strategy planning

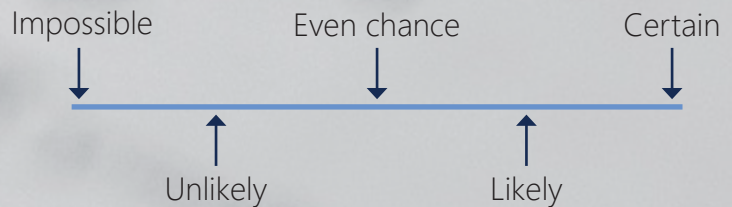
The ability to approach new learning experiences by actively attempting to connect it to existing knowledge

75% 70% 65% 5%
50% 33% 40% 12%

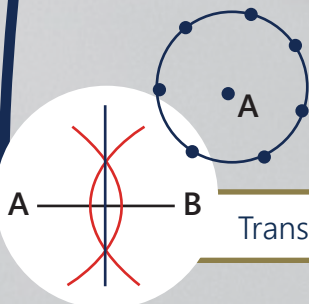
- Basic percentages
- Perimeter and area
- Real life graphs



- Scatter graphs
- Equations
- Circumference and area
- Ratio and proportion



Probability number place value and standard form



Transformations, constructions and loci

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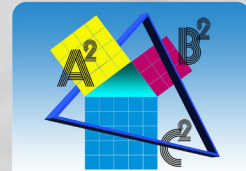


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GCSE Maths - Higher

Years

10 & 11



- Pythagoras
- Trigonometry
- Indices surds



Statistics, polygons and circle theorems



LINKING

Students use their ability to deduce, hypothesise and reason.

Quadratic equations:

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

- Algebra recap
- Percentages congruence
- Similarity

- Simultaneous equations
- Probability
- Volume

Realising



Automaticity – the ability to use some skills with such ease as they no longer require active thinking.



Sketching graphs

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GCSE Maths - Higher

CREATING



Intellectual playfulness

The ability to recognise rules and bend them to create valid but new forms

Linear and quadratic equations

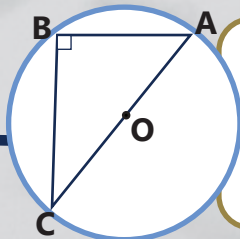
Geometry and measures. Transformations, bearings and constructions.

- Algebra
- Trigonometry
- Sine and Cosine rules
- Algebraic fractions

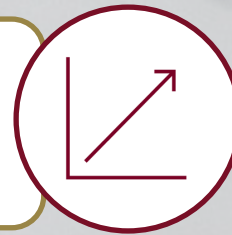
$$\begin{cases} 2x_1 + x_2 = 7 \\ x_1 + x_2 - 3x_3 = -10 \\ 6x_2 - 2x_3 + x_4 = 7 \\ 2x_3 - 3x_4 = 13 \end{cases}$$

Inequalities, vectors, growth, decay and sketching Graphs.

- Equations of Circles
- Indices standard form
 - Surds



- Circle theorem
- Quadratic functions
- Numerical methods
 - Gradients
- Rates of change



Meta-thinking



Recap area under curve and revision for end of year exams

Exams



Students will take 3 GCSE exams at the end of Year 11, including:

- 1 x non-calculator paper - 1h30m - 33.3% worth of final grade
- 2 x calculator paper - 1h30m - each worth 33.3% of final grade

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