Maths Learning Journey Map
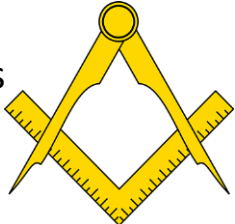## Year 9

SKILLS DEVELOPED

Year 9 Survival Top Tips	
Tip 1	Develop your study skills
Tip 2	Solidify knowledge of key concepts
Tip 3	Use the revision lists to help you revise for the half termly tests
Tip 4	Keep on top of work to avoid falling behind
Tip 5	Ask your teacher for help to confirm your understanding

YEAR 9 Half Term 6

- Transformations
- Constructions and Loci
- 2D representations of 3D shapes

YEAR 9 Half Term 5

- Scatter Graphs
- Indices
- Standard form

Positive correlation
As one variable increases so does the other variable.

Negative correlation
As one variable increases the other variable decreases.

No correlation
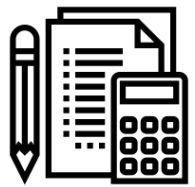There is no relationship between the two variables.

4.2×10^9

Must be an Integer

Must be 1 to 10 (but not 10!)

Must be x 10

YEAR 9 Half Term 4

- Circumference and Area
- Ratio and proportion
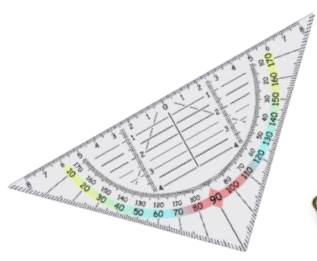- Basic probability

YEAR 9 Half Term 3

- Collecting and representing data
- Sequences
- Basic percentages
- Perimeter and area
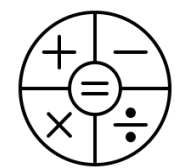
YEAR 9 Half Term 2

- Scale diagrams and bearings
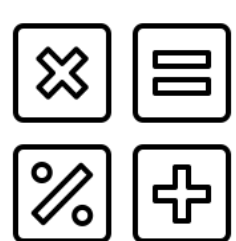- Basic decimals
- Coordinates and linear graphs
- Rounding

CURRICULUM OVERVIEW

$1 + 1 = 2$
$2 \times 2 = 4$

- Basic number
- Factors and Multiples
- Basic algebra
- Equations
- Basic Fractions
- Angles

YEAR 9 Half Term 1

Maths Learning Journey Map
Year 10

SKILLS DEVELOPED

| Year 10 Survival Top Tips	
Tip 1	Organise your learning and revision
Tip 2	Time management – do a little bit often
Tip 3	Use the revision lists to help you revise for the half termly tests
Tip 4	Try and find different ways to revise to keep it interesting
Tip 5	Ask your teacher for help to confirm your understanding

Move on to Year11

Summer Holidays

Next Level

- Algebra recap
- Sketching graphs
- Linear graphs
- Quadratic graphs
- Geometry and measures

$$y = ax^2 + bx + c$$
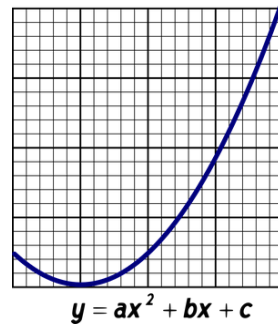
YEAR 10
Half Term 6

- Quadratics
- Rearranging formulae
- Volume

$$V = \frac{4}{3}\pi r^3$$
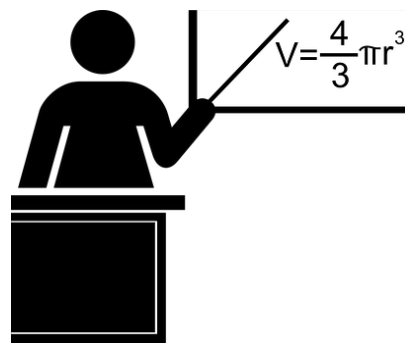
YEAR 10
Half Term 5

- Simultaneous equations
- Probability
- Statistics recap

YEAR 10
Half Term 4

- Number recap
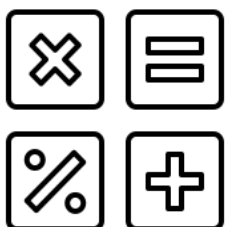- Congruence and similarity
- Pythagoras theorem
- Basic trigonometry

$$a^2 + b^2 = c^2$$
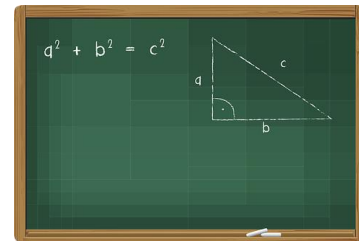
YEAR 10
Half Term 3

- Statistical Measures
- Real Life graphs
- Properties of polygons

YEAR 10
Half Term 2

CURRICULUM OVERVIEW

- Calculating with percentages
- Measures
- Surds

$$\frac{\sqrt{2}}{2} \quad or \quad \frac{1}{\sqrt{2}}$$

YEAR 10
Half Term 1

Maths Learning Journey Map
Year 11

SKILLS DEVELOPED

Year 11 Survival Top Tips	
Tip 1	Make a revision plan and stick to it
Tip 2	Create a revision plan that's achievable.
Tip 3	Make concise and clear class notes
Tip 4	Practice using past papers
Tip 5	Ask your teacher for help to confirm your understanding

GCSE Results day ★★★★★

A-Level/ college ★★★★★

the future ★★★★★

YEAR 11 Half Term 6

What is revision?

Re-vision

Again   See

➤ REVISION

YEAR 11 Half Term 5

➤ Gradients and rate of change
➤ Pre-calculus and area under a curve
➤ Algebraic fractions

YEAR 11 Half Term 4
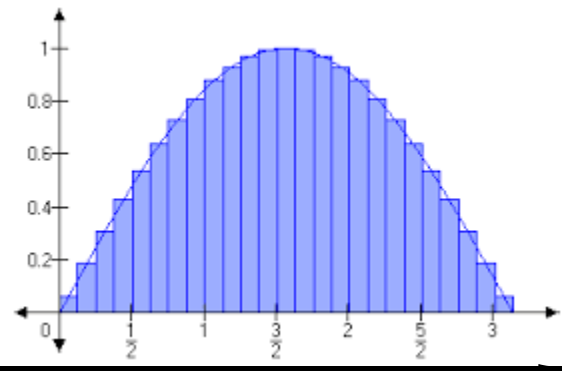
➤ Sine and cosine rules
➤ Transforming functions
➤ Numerical Methods
➤ Circle Theorems

CIRCLE THEOREMS
ANGLE RELATIONSHIPS WITHIN CIRCLES

|	
The angle at the centre is twice the angle at the circumference.	The angle from a diameter is 90°
Angles in the same segment are equal.	The angle between a tangent and a radius is 90°
Opposite angles in a cyclic quadrilateral add to 180°	The angle between a tangent and a chord is equal to the angle in the alternate segment

YEAR 11 Half Term 3
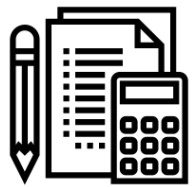
➤ Inequalities
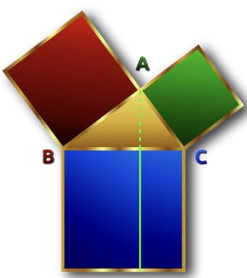➤ Vectors
➤ Further sketching graphs

$\vec{a}$ B

A
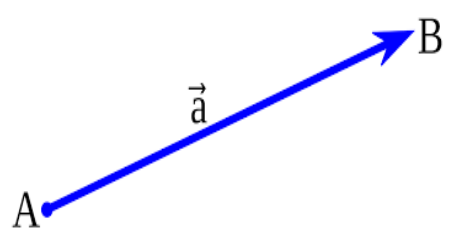
YEAR 11 Half Term 2

➤ Equations of a circle
➤ Further equations and graphs
➤ Direct and Inverse proportion

Equation of a Circle: $x^2 + y^2 = r^2$

point (x, y)
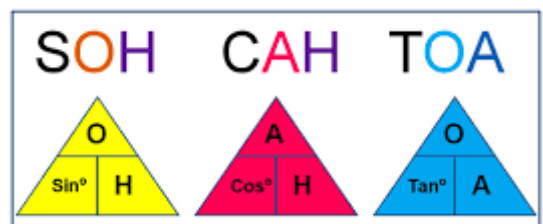
center $(0, 0)$

CURRICULUM OVERVIEW

$a^2 + b^2 = c^2$

SOH   CAH   TOA

| O Sin° | H | A Cos° | H | O Tan° | A |

➤ Further quadratics
➤ Rearranging formulae
➤ Identities
➤ Trigonometry recap and extension
➤ Growth and decay

YEAR 11 Half Term 1