Maths Learning Journey Map
Year 10 Foundation

SKILS DEVELOPED

Year 10 Survival Top Tips

|	
Tip 1	Organise your schoolbag the night before
Tip 2	Arrive to class on time
Tip 3	Have homework completed for each class
Tip 4	Make a list for homework and activities for each day
Tip 5	Write due dates for projects into a wall calendar
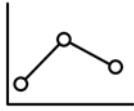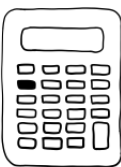
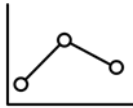**YEAR 10**

- Plotting linear graphs
- Using y=mx+c for straight lines graphs
- Converting metric measures
- Compound measures e.g. speed, density, pressure
- Maps and Scale drawings using bearings
- Plans and elevations including using isometric paper

YEAR 10
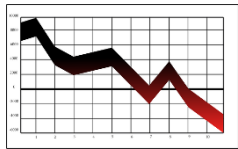
- Solving simultaneous equations graphically
- Solving equations graphically
- Linear equations one unknown including brackets and two unknowns
- Solving quadratic equations by factorising
- Simultaneous equations using algebra
- Calculations with mixed numbers
- Recurring decimals
- Dividing decimals
- Scatter diagrams, outliers and correlation

- Index notation and the laws of indices
- Standard index form including calculations
- Exact calculations
- Exact angles for trigonometry i.e.. 30.45 and 60 degrees
- Solving Linear inequalities

YEAR 10

- Constructions and Loci
- Angles rules including parallel lines Angles in triangles and quadrilaterals
- Interior and exterior angles of polygons
- Simplifying ratios
- Sharing in a ratio and problem solving
- Direct proportion and Inverse proportion formulae and graphically
- Percentage change
- Using multipliers
- Growth and decay including compound interest
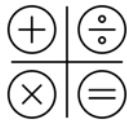
YEAR 10

- Rounding using decimals place and significant figures
- Estimation using significant figures
- Upper and lower bounds
- Circumference and Area of circles
- Surface area and
- Pythagoras's Theorem
- Trigonometry to find lengths and angles in right angles triangles
- Forming and solving equations
- Writing formulae
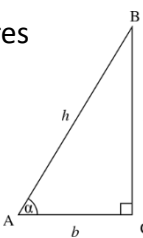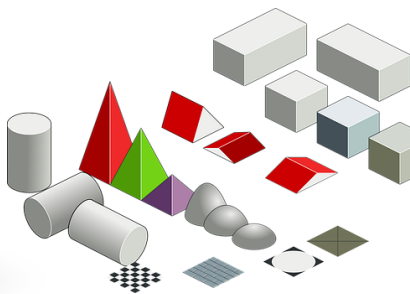
- Sampling
- Calculate the mode, median, mean and range for ungrouped and grouped data.
- Draw and interpret frequency polygons
- Bar charts, Pie Charts, Pictograms-Foundation
- Box Plots, Cumulative Frequency and Histograms -Higher
- Interpret and construct line graphs for time series data, and identify trends
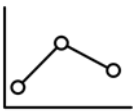
- Recap types of number
- Product of its prime factors.
- Find the HCF and LCM
- Simplify algebraic expressions
- Expand brackets
- Difference between two squares
- Factorise using common factors
- Factorise quadratic expression
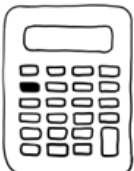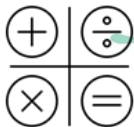- Substitute increasingly complex formulae
- Rearrange formulae

YEAR 10

CURRICULUM OVERVIEW
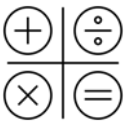
SKILLS TAUGHT ACROSS ___MATHS___

1) **Arithmetic skills**
2) **Social skills**
3) **Communication skills**
4) **Resilience**
5) **Problem-solving skills**
6) **Team work**

welcome

CURRICULUM OVERVIEW