Maths Learning Journey Map
Year 9

SKILS DEVELOPED

Year 9 Survival Top Tips	
Tip 1	Ask for help if needed
Tip 2	Redo questions before a test
Tip 3	Practice every night
Tip 4	Use arithmetic and calculator skills
Tip 5	Correct answers with a friend or person beside you

Move on to Year 10

Start GCSE's

Next Level

- SUVAT formulae
- Distance time graphs
- Pythagoras Theorem and Trigonometry
- Area and circumference of circles
- Volume and surface area of cylinders
- Constructions using compasses
- 2D and 3D representations of shapes including use of isometric paper
- Plans and elevations

YEAR 9

- Ratio
- Percentages
- Simple Interest
- Simple interest

- Units of measurement, length, area, volume/capacity, mass and time
- Calculate the perimeter, area, volume and surface area
- Find missing dimensions
- Direct and inverse proportion
- Real life graphs e.g. conversion
- Congruent shapes and triangles
- Similar shapes including-area and volume
- Compound units e.g speed, density,

YEAR 9

- Rounding and Estimation using significant figures
- Solve simultaneous equations graphically
- Approximate solutions to equations using graphs
- Recognise and sketch linear and quadratic graphs
- Use of y=mx+c for straight line graphs

- Reflections
- Rotations
- Translations
- Enlargements
- Angles in triangles and quadrilaterals
- Angles rules including parallel lines
- Properties of triangle, quadrilaterals including symmetry
- Angles in polygons

YEAR 9

- Algebraic substitution
- Simplifying algebraic expressions
- Multiplying out single brackets
- Factorising using common factors
- Multiplying out double brackets
- Solving linear equations including those with brackets or unknown on both sides
- Inequalities

- Fractions Decimals and Percentages calculati
- Decimals, four rules non-calc
- Probability-equally likely outcomes
- Relative frequency
- Listing outcomes and sample space
- Venn diagrams

- Frequency tables, bar charts, pie charts and pictograms
- Interpret multiple and composite bar charts.
- Calculate the mean, mode, median and range for ungrouped data and grouped data
- Use statistics to make simple comparisons Misleading graphs
- Scatter diagrams

- Index notation and Standard Index form
- Four rules for whole numbers, positive and negative
- Inverse operations
- Prime numbers, prime decomposition and HCF and LCM
- Order of operations

YEAR 9

CURRICULUM OVERVIEW

SKILLS TAUGHT ACROSS ___MATHEMATICS_____

1) **Communication skills**
2) **Interpersonal skills**
3) **Social skills**
4) **Time management skills**
5) **Mental Maths**
6) **Using a calculator effectively**

welcome

CURRICULUM OVERVIEW