



Maths Learning Journey Map

Year 9



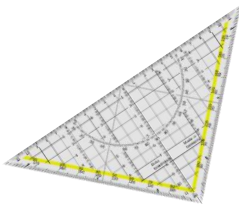
SKILLS DEVELOPED

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



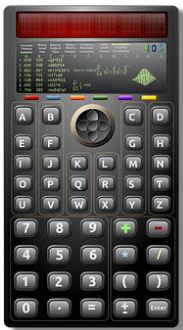
- Ratio
- Percentages
- Simple Interest
- Simple interest



- 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,



- 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



- 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 calculation
- 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



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