Mathematics KS4: Year 10 Higher (25/26)

Stage 12

- Repeated percentage change
- Similar shapes (Area and volume)
- Direct and inverse proportion

Stage 11

- · Cumulative frequency graphs
- Box plots



Stage 11

- Expanding triple brackets
- Parallel and perpendicular lines

SUMMER

3:2

Stage 11

- Inequalities on graphs
- Rearranging harder formulae
- Enlarging with negative scale factors

Stage 11

- Recurring decimals to fractions
- Fractional and negative indices
- Surds

SUMMER 3:1

- Sector areas and arc lengths
- Spheres and cones
- SOH CAH TOA trigonometry
- · Exact trig vales

Stage 9

- · Loci and construction
- Bearings
- Vectors
- Probability trees
- Venn diagrams and simple set notation

SPRING 2:2

Stage 10

• Writing ratio as a fraction or linear function

Stage 10

- Simultaneous equations (algebraically and graphically)
- Direct and inverse proportion
- Similar shapes (lengths)

Stage 9

- Changing the subject of a formula
- Gradient of a line
- Equation of a line
- Angles in parallel lines
- Angles in polygons

Stage 8

- Expanding and factorising quadratics
- Solving quadratics by factorising
- Drawing quadratic graphs
- Drawing cubic/reciprocal graphs

SPRING 2:1

Stage 8

- Standard form
- · Reverse percentages
- Speed, density and pressure
- Real life and distance time graphs

AUTUMN 1:2

Stage 7

- Compound interest and depreciation
- Sequences (nth term)
- Inequalities
- Forming and solving equations

Stage 7

- Pythagoras Theorem
- Surface area
- Volume of a prism
- Cylinders
- Averages from frequency tables
- Probability





Stage 6

- Estimation
- Error intervals
- Prime factors, LCM, HCF
- Indices
- Expanding and factorising
- Plans and elevations
- Transformations
- Scatter graphs

Stage 5

- Percentage change
- Exchange rates
- Ratio
- Solving equations
- Area and circumference of circles
- Frequency trees
- Two-way tables
- Pie charts

Stage 3/4

- Combined (reverse) mean
- Stem and leaf diagrams
- Frequency polygons
- Straight line graphs
- Product rule for counting

 Converting units and conversi
- Converting units and conversion graphs
- Scale drawings

AUTUMN 1:1

OUR LEARNING JOURNEY

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Mathematics KS4: Year 10 Foundation (25/26) Stage 8 Stage 7 Stage 7 Pythagoras Averages from frequency Standard form **Surface Area** tables **Reverse percentages** Volume of a Prism **Probability** Cylinders Stage 7 Compound interest and **SUMMER** depreciation 3:2 Sequences (nth term) Inequalities Forming and solving equations Stage 6 Estimating **Error intervals** Stage 6 Prime factors, HCF and LCM **Transformations SUMMER** Scatter graphs 3:1 **Expanding and factorising** Plans and elevations Stage 5 **Solving equations** Area and circumference of circles **SPRING Frequency trees** Two-way tables 2:2 Pie charts Stage 5 Stage 3 Stage 4 Stage 4 **Percentages Angles** Function machines **SPRING** Percentages Percentage change **Averages** Writing and Frequency polygons 2:1 **Exchange rates Bar charts** Fractions of an simplifying ratio Ratio Stem and leaf Stage 3 amount **Fractions** diagrams Substitution Drawing graphs **Conversions and** Solving one step units equations Scale drawings Stage 3 Area and perimeter Calculation problems Fractions, decimals, Stage 2 **AUTUMN** Simplifying Algebra percentages 1:2 **Writing expressions** conversions Using a calculator **Probability** Stage 1 Stage 2 Stage 1 Place value **Addition and Factors and** subtraction multiples **AUTUMN Negative numbers** Multiplication Writing and 1:1 **OUR LEARNING Powers and roots** and division simplifying **BIDMAS** Rounding fractions **Systematic listing** Coordinates **Pictograms JOURNEY** 2