Year 11 Foundation Scheme of learning 2023-2024 - Term 1

Stretch key learning in italics

| Торіс | Key learning | MathsWatch Clip | 8 | ۲ | 0 |
|-------------------------------------|--|-----------------------|---|---|---|
| | Percentice types of data, primary secondary, guantitative and | NO | | 1 | 1 |
| Statistics and sampling | qualitative | 63 | | | |
| | Find averages from a list and tables including grouped frequency tables | 62, 65, 130a, 130b | | | |
| | Understand how sources of data may be biased | 152 | | | |
| | Explain why a sample may not be representative of a whole population | 152 | | | |
| Plans and elevations | Draw sketches of 3D solids | | | | |
| | Know the terms face, edge and vertex | 43 | | | |
| | Identify and sketch planes of symmetry of 3D solids | | | | |
| | Understand and draw front and side elevations and plans of shapes | 51 | | | |
| | Given the front and side elevations and the plan of a solid, draw a sketch of the 3D solid | 51 | | | |
| Quadratic equations | Multiply together two algebraic expressions with brackets | 134a, 134b | | | |
| | Square a linear expression, e.g. (x + 1) ² | 158 | | | |
| | Factorise quadratic expressions | 157 | | | |
| | Factorise a quadratic expression x ² – a ² using the difference of two squares | 158 | | | |
| Quadratic Graphs | Recognise a linear, quadratic, cubic, reciprocal and circle graph from its shape | 98, 161, 194 | | | |
| | Generate points and plot graphs for quadratic functions | 98 | | | |
| Rearranging equations | Know the difference between an equation and an identity and use and understand the \neq symbol | | | | |
| | Change the subject of a formula involving the use of square roots and squares | 136 | | | |
| | October Half Term | | | | |
| Graphs of cubics and reciprocals | Recognise, sketch and interpret graphs of simple cubic functions | 161 | | | |
| | Recognise, sketch and interpret graphs of the reciprocal function $1/x$ with $x \neq o$ | 161 | | | |
| | Identify and interpret the gradient from an equation ax + by = c | 96, 97 | | | |
| Vectors | Represent movement using a column vector | 174 | | | |
| | Calculate using column vectors | 174 | | | |
| | Draw vectors and use scalers | 174 | | | |
| Ratio | Simplify ratios, write ratios as fractions and in the form 1:n | 38 | | | |
| | Share amounts into a ratio | 106 | | | |
| | Solve problems involving ratios | 106 | | | |
| | Mocks (2 weeks) | | | | |
| | Gap fill/ Review of papers | | | | |
| Christmas holidays | | | | | |

Year 11 Foundation Scheme of learning 2023-2024 - Term 2

Stretch key learning in italics

| Торіс | Key learning | MathsWatch clip no | 8 | ۲ | 0 | | |
|-------------------------------------|--|--------------------|---|---|---|--|--|
| Simultaneous equations | Form and solve linear equations | 100, 137 | | | | | |
| | Solve simultaneous equations algebraically and graphically | 140, 162 | | | | | |
| | Solve simultaneous equations representing a real-life situation | 140, 162 | | | | | |
| Similarity and congruence | Use angle facts for missing angles | 45, 120 & 121 | | | | | |
| | Enlarge a shape by a given scale factor | 148 | | | | | |
| | Use the basic congruence criteria for triangles (SSS, SAS, ASA, RHS) | 166 | | | | | |
| | Solve problems to find missing lengths in similar shapes | 144 | | | | | |
| | Understand the effect of enlargement on perimeter of shapes | | | | | | |
| Loci, Constructions and bearings | Estimate and measure lengths and angles | 46a | | | | | |
| | Draw accurate lengths and angles | 46b | | | | | |
| | Draw and measure bearings | 124 | | | | | |
| | Construct perpendicular bisectors and angle bisectors | 145 – 146 | | | | | |
| | Use constructions to solve loci problems | 165 | | | | | |
| February Half Term | | | | | | | |
| Mocks (2 weeks) | | | | | | | |
| Gap fill/ Review of papers | | | | | | | |