# Year 7 – Curriculum Plan

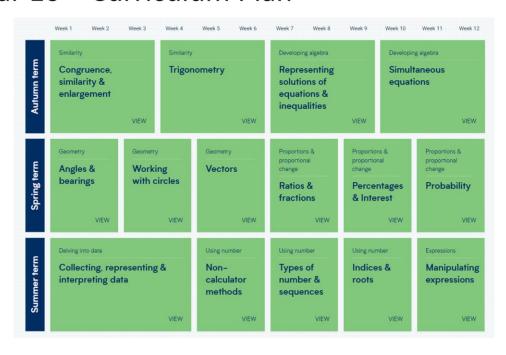| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Autumn term** | Algebraic thinking **Sequences** VIEW | | Algebraic thinking **Understand & use algebraic notation** VIEW | | Algebraic thinking **Equality & equivalence** VIEW | | Place value & proportion **Place value & ordering integers & decimals** VIEW | | | Place value & proportion **Fraction, decimal & percentage equivalence** VIEW | | |
| **Spring term** | Applications of number **Solving problems with addition & subtraction** VIEW | Applications of number **Solving problems with multiplication & division** VIEW | | | | Fractions & percentages of amounts VIEW | Directed number **Operations & equations with directed number** VIEW | | | Fractional thinking **Addition & subtraction of fractions** VIEW | | |
| **Summer term** | Lines & angles **Constructing, measuring & using geometric notation** VIEW | | | Lines & angles **Developing geometric reasoning** VIEW | | | Reasoning with number **Developing number sense** VIEW | | Reasoning with number **Sets & probability** VIEW | | Reasoning with number **Prime numbers & proof** VIEW | |

# Year 8 – Curriculum Plan

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Autumn term** | Proportional reasoning **Ratio & scale** VIEW | | Proportional reasoning **Multiplicative change** VIEW | | Proportional reasoning **Multiplying and dividing fractions** VIEW | | Representations **Working in the Cartesian plane** VIEW | | | Representations **Representing data** VIEW | | Representations Tables & Probability VIEW |
| **Spring term** | Algebraic techniques **Brackets, equations & inequalities** VIEW | | | | Algebraic techniques Sequences VIEW | Algebraic techniques Indices VIEW | Developing Number **Fractions & percentages** VIEW | | | Developing Number **Standard index form** VIEW | | Developing Number Number sense VIEW |
| **Summer term** | Developing geometry **Angles in parallel lines & polygons** VIEW | | | Developing geometry **Area of trapezia & circles** VIEW | | Developing geometry Line symmetry & reflection VIEW | Reasoning with data **The data handling cycle** VIEW | | | | Reasoning with data **Measures of location** VIEW | |

# Year 9 – Curriculum Plan

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Autumn term** | Reasoning with algebra **Straight line graphs** VIEW | | Reasoning with algebra **Forming & solving equations** VIEW | | Reasoning with algebra **Testing conjectures** VIEW | | Constructing in 2 & 3 dimensions **Three dimensional shapes** VIEW | | | Constructing in 2 & 3 dimensions **Constructions & congruency** VIEW | | |
| **Spring term** | Reasoning with number **Numbers** VIEW | | Reasoning with number **Using percentages** VIEW | | Reasoning with number **Maths & money** VIEW | | Reasoning with geometry **Deduction** VIEW | | Reasoning with geometry **Rotation & translation** VIEW | | Reasoning with geometry **Pythagoras' theorem** VIEW | |
| **Summer term** | Reasoning with proportion **Enlargement & similarity** VIEW | | Reasoning with proportion **Solving ratio & proportion problems** VIEW | | Reasoning with proportion **Rates** VIEW | | Representations & revision **Probability** VIEW | | Algebraic Representation VIEW | Revision | | |

# Year 10 – Curriculum Plan

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Autumn term** | Similarity **Congruence, similarity & enlargement** VIEW | | | Similarity **Trigonometry** VIEW | | | Developing algebra **Representing solutions of equations & inequalities** VIEW | | | Developing algebra **Simultaneous equations** VIEW | | |
| **Spring term** | Geometry **Angles & bearings** VIEW | | Geometry **Working with circles** VIEW | | Geometry **Vectors** VIEW | | Proportions & proportional change **Ratios & fractions** VIEW | | Proportions & proportional change **Percentages & Interest** VIEW | | Proportions & proportional change **Probability** VIEW | |
| **Summer term** | Delving into data **Collecting, representing & interpreting data** VIEW | | | Using number **Non-calculator methods** VIEW | | Using number **Types of number & sequences** VIEW | | Using number **Indices & roots** VIEW | | Expressions **Manipulating expressions** VIEW | | |

# Year 11 – Curriculum Plan

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Autumn term** | Graphs **Gradients & lines** VIEW | | Graphs **Non-linear graphs** VIEW | | Graphs **Using graphs** VIEW | | Algebra **Expanding & factorising** VIEW | | Algebra **Changing the subject** VIEW | | Algebra **Functions** VIEW | |
| **Spring term** | Reasoning **Multiplicative reasoning** VIEW | | Reasoning **Geometric reasoning** VIEW | | Reasoning **Algebraic reasoning** VIEW | | Revision & communication **Transforming & Constructing** VIEW | | Revision & communication **Listing & describing** VIEW | | Revision & communication **Show that...** VIEW | |
| **Summer term** | Revision and examinations | | | | | | | | | | | |

# Year 12 – A-level Maths- Curriculum Plan

| | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---|---|---|---|---|---|---|
| **Pure** | 1. Algebraic Expression | 5. Straight line graphs | 9. Trigonometric ratios | 12. Differentiation | 14. Exponentials and logarithms | 1. Proof |
| | 2. Quadratics | 6. Circles | 10. Trigonometric identities and equations | 13. Integration | Catch up and Revision | 2. Algebraic partial fractions |
| | 3. Equations and Inequalities | 7. Algebraic methods | 11. Vectors | | | |
| | 4. Graphs and Transformations | 8. Binomial expansion | | | | |
| **Statistics** | 1. Data collection | 2. Measures of location and spread | 4. Correlation | 6. Statistical Distribution | 7. Hypothesis testing | |
| | Large data set | 3. Representation of data | 5. Probability | 7. Hypothesis testing | | |
| **Mechanics** | 8. Modelling in mechanics | 9. Constant acceleration | 10. Forces and motion | 10. Forces and motion continued | 11. Variable acceleration | |
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# Year 12 – AS Core Maths- Curriculum Plan

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---|---|---|---|---|---|
| Numerical Calculation | Collecting and sampling data | Properties of the normal distribution | Representing data numerically | Population and sample | |
| Percentages | Interest Rates | Notation | Representing data diagrammatically | The mean of sample size n | Revision and end of year exams |
| Fermi Estimation | Taxation | Calculating probabilities | Limits and accuracy | Confidence intervals | |
| Data | Solution to financial problems | Presenting logical and reasoned arguments in context | Correlation | Taxation | |
| The modelling cycle | Perimeter, Circumference and Area | Communicating mathematical approaches and solutions | The product moment correlation coefficient | | |
| Representing data numerically | Similarity and Pythagoras Theorem | Surface area and similarity | Regression lines | Revision and end of year exams | |
| Representing data diagrammatically | | Equation of a straight line | Calculations | | |
| | | Graphical representation | Analysing critically | | |
| | | Repayments and the cost of credit | | | |