**Subject:** Mathematics

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**Structure of the exam:**

2 exam papers (one non-calculator, one calculator)

90 minutes each paper (Total of 180 minutes)

80 marks per paper – total of 180 Marks

**Topics to be covered in the exam:**

| Sparx Code | Topic | Done? | Strand |
|---|---|---|---|
| **U105** | Simplifying expressions by collecting like terms | | Algebra |
| **U128** | Using lines of best fit | | Statistics |
| **U151** | Calculating with speed | | Ratio, Proportion and Rates of Change |
| **U176** | Converting between ratios, fractions and percentages | | Ratio, Proportion and Rates of Change |
| **U181** | Changing the subjects of formulae with two or more steps | | Algebra |
| **U211** | Finding factors and using divisibility tests | | Number |
| **U213** | Term-to-term rules | | Algebra |
| **U225** | Estimating calculations | | Number |

| Sparx Code | Topic | Done? | Strand |
|---|---|---|---|
| **U236** | Finding prime numbers | | Number |
| **U257** | Drawing and interpreting scale diagrams | | Ratio, Proportion and Rates of Change |
| **U264** | Multiplying and dividing numbers in standard form | | Number |
| **U277** | Interpreting scatter graphs | | Statistics |
| **U280** | Frequency trees | | Probability |
| **U293** | Using a written method to multiply decimals | | Number |
| **U325** | Solving equations with two or more steps | | Algebra |
| **U330** | Using standard form with positive indices | | Number |
| **U332** | Compound interest calculations | | Ratio, Proportion and Rates of Change |
| **U349** | Finding percentages of amounts with a calculator | | Number |
| **U365** | Factorising into one bracket | | Algebra |
| **U385** | Using Pythagoras' theorem in 2D | | Geometry |
| **U388** | Converting units of length, mass and capacity | | Ratio, Proportion and Rates of Change |
| **U408** | Writing probabilities as fractions | | Probability |
| **U424** | Finding the area of parallelograms | | Geometry |

| Sparx Code | Topic | Done? | Strand |
|---|---|---|---|
| **U435** | Understanding and ordering decimals | | Number |
| **U456** | Calculating the median | | Statistics |
| **U480** | Rounding integers | | Number |
| **U506** | Drawing and interpreting pictograms | | Statistics |
| **U525** | Measuring and drawing bearings | | Geometry |
| **U526** | Calculating the range | | Statistics |
| **U533** | Simple interest calculations | | Ratio, Proportion and Rates of Change |
| **U534** | Using standard form with negative indices | | Number |
| **U558** | Tree diagrams for independent events | | Probability |
| **U569** | Finding averages from frequency tables | | Statistics |
| **U585** | Substituting into algebraic formulae | | Algebra |
| **U593** | Graphs of reciprocal functions | | Algebra |
| **U601** | Solving quadratic equations graphically | | Algebra |
| **U613** | Using algebraic notation | | Algebra |
| **U652** | Plotting linear real-life graphs | | Algebra |
| **U657** | Finding error intervals | | Number |

| Sparx Code | Topic | Done? | Strand |
|---|---|---|---|
| **U659** | Operations with money | | Ratio, Proportion and Rates of Change |
| **U667** | Interpreting graphs of quadratic functions | | Algebra |
| **U687** | Writing and simplifying ratios | | Ratio, Proportion and Rates of Change |
| **U694** | Index rules with negative indices | | Number |
| **U721** | Solving direct proportion word problems | | Ratio, Proportion and Rates of Change |
| **U736** | Adding and subtracting fractions | | Number |
| **U739** | Prime factor decomposition | | Number |
| **U741** | Plotting straight line graphs | | Algebra |
| **U746** | Ordering fractions | | Number |
| **U751** | Finding the lowest common multiple (LCM) | | Number |
| **U755** | Solving equations with one step | | Algebra |
| **U759** | Solving single inequalities | | Algebra |
| **U760** | Solving simultaneous equations using elimination | | Algebra |
| **U768** | Expanding double brackets | | Algebra |

| Sparx Code | Topic | Done? | Strand |
|---|---|---|---|
| **U773** | Percentage change without a calculator | | Ratio, Proportion and Rates of Change |
| **U786** | Finding the volume of cubes and cuboids | | Geometry |
| **U789** | Reading and plotting coordinates | | Algebra |
| **U799** | Reflection | | Geometry |
| **U803** | Using probability phrases | | Probability |
| **U840** | Drawing and interpreting frequency polygons | | Statistics |
| **U851** | Calculating with roots and powers | | Number |
| **U862** | Using and finding equations of linear real-life graphs | | Algebra |
| **U888** | Converting between fractions, decimals and percentages | | Number |
| **U902** | Reading, converting and calculating with time | | Ratio, Proportion and Rates of Change |
| **U910** | Calculating with density | | Ratio, Proportion and Rates of Change |
| **U916** | Finding fractions of amounts with a calculator | | Number |
| **U929** | Finding the surface area of cubes and cuboids | | Geometry |
| **U947** | Ordering negative numbers | | Number |
| **U976** | Using the correct order of operations | | Number |

| Sparx Code | Topic | Done? | Strand |
|---|---|---|---|
| **U980** | Graphs of cubic functions | | Algebra |
| **U993** | Mixed problems: Finding the area and perimeter of simple shapes | | Geometry |

**Types of question in the exam paper:**

A mixture of:

• Short fluency questions (method + answer)

• Multi-step problem solving questions

• Reasoning questions (explain / justify your answer)

**Essential subject revision:**

| Type of revision | Resources needed | Time required |
|---|---|---|
| Mind Maps / Summary Sheets<br>Mind maps or 1-page summaries of key methods and facts. | Exercise book/class notes, /Knowledge Organiser , paper. | 30 minutes |
| Exam Style Question practice<br>Completing mixed exam-style questions under timed conditions. | ROA practice questions, Teams resources | 30 minutes |

**Additional subject revision:**

| Type of revision | Resources needed | Time required |
|---|---|---|
| Recapping Homework content<br>Recapping and correcting SPARX homework. | SPARX (Independent Learning tasks from codes supplied in revision list).<br>www.mathsgenie.co.uk – past paper and GCSE Questions | 30 minutes |
| Reteaching Lesson Content | Lesson booklets, lesson slides, worked examples, notes. | 30 minutes per lesson |

| | | |
|---|---|---|
| Self-quizzing<br>Using look, cover, write, check for key methods, facts and vocabulary. | Knowledge Organiser / revision grid / method cards (if used). | 30 minutes |