

## Year 11 Revision Checklist

# Maths - Foundation

|                                      |   |
|--------------------------------------|---|
| <b>Exam length</b>                   | Paper 1: Non-calculator (80 marks, 90 minutes)<br>Paper 2: Calculator (80 marks, 90 minutes)<br>Paper 3: Calculator (80 marks, 90 minutes)  |
| <b>Topics to Revise</b>              | Revise all topics   |
| <b>Resources to support revision</b> | <ul style="list-style-type: none"> <li>• Your classwork book: look at worked examples and working out</li> <li>• Sparx Independent Learning: <a href="https://www.sparxmaths.uk">https://www.sparxmaths.uk</a></li> <li>• Physics and Maths tutor: <a href="https://www.physicsandmathstutor.com/maths-revision/gcse-questions-edexcel/">https://www.physicsandmathstutor.com/maths-revision/gcse-questions-edexcel/</a></li> <li>• Maths genie: <a href="https://www.mathsgenie.co.uk/">https://www.mathsgenie.co.uk/</a></li> </ul> |

### Overview of Topics

| Content                                | Number   |                            |                         |
|--|--|----------------------------|-------------------------|
|  | Sparx Unit Codes                               | Sparx Independent Learning | Practice Exam Questions |
| Money                                  | U478, U293, U868, U881, U554, U916, U349       |                            |                         |
| Four operations                        | U417, U478, U735, U127, U293, U453, U868, U976 |                            |                         |
| Negative number                        | U947, U742, U548                               |                            |                         |
| Order fractions, decimals, percentages | U746, U439, U594                               |                            |                         |
| Fraction of an amount                  | U881, U916                                     |                            |                         |
| Fraction arithmetic                    | U736, U793, U475, U224, U544, U538, U874       |                            |                         |
| Place value                            | U600, U435                                     |                            |                         |
| Multiples                              | U751   |                            |                         |
| Factors                                | U211, U529                                     |                            |                         |
| Lowest Common Multiple                 | U751, U250                                     |                            |                         |
| Product of prime factors               | U739, U250                                     |                            |                         |
| Standard form Conversion               | U330, U534                                     |                            |                         |
| Standard form Calculation              | U264, U290                                     |                            |                         |
| Rounding                               | U480, U298, U731, U965                         |                            |                         |
| Estimation                             | U225   |                            |                         |
| Error interval                         | U657   |                            |                         |

| <b>Algebra</b>                |  |                                   |                                |
|-------------------------------|--|-----------------------------------|--------------------------------|
| <b>Content</b>                | <b>Sparx Unit Codes</b>                        | <b>Sparx Independent Learning</b> | <b>Practice Exam Questions</b> |
| Simplification                | U105, U662                                     |                                   |                                |
| Expansion of bracket          | U179, U768                                     |                                   |                                |
| Factorisation                 | U365, U178                                     |                                   |                                |
| Change subject of a formula   | U556   |                                   |                                |
| Substitute values             | U201, U585, U144                               |                                   |                                |
| Forming an expression         | U613   |                                   |                                |
| Laws of indices               | U662   |                                   |                                |
| Linear equation               | U755, U325, U870                               |                                   |                                |
| Linear inequality             | U509, U759, U738, U145, U337                   |                                   |                                |
| Linear simultaneous equations | U760, U757, U836, U137                         |                                   |                                |
| Form an equation              | U599   |                                   |                                |
| Quadratic equation            | U228   |                                   |                                |
| Coordinates                   | U789, U889                                     |                                   |                                |
| Straight line graph           | U741, U315, U669, U477, U848, U638, U862, U652 |                                   |                                |
| Quadratic graph               | U601, U989, U667                               |                                   |                                |
| Linear sequence               | U213, U530, U498, U978                         |                                   |                                |

| <b>Ratio and Proportion</b>             |                         |                                   |                                |
|---|-------------------------|-----------------------------------|--------------------------------|
| <b>Content</b>                          | <b>Sparx Unit Codes</b> | <b>Sparx Independent Learning</b> | <b>Practice Exam Questions</b> |
| Conversion Length, mass, time, area     | U388, U902, U248        |                                   |                                |
| Compound units                          | U151, U256, U910, U527  |                                   |                                |
| Percentage to fraction                  | U888                    |                                   |                                |
| Percentage profit                       | U671, U278              |                                   |                                |
| One quantity as a percentage of another | U349                    |                                   |                                |
| Depreciation                            | U988                    |                                   |                                |
| Reverse percentage                      | U286                    |                                   |                                |
| Write as a ratio                        | U687                    |                                   |                                |
| Depreciation                            | U988                    |                                   |                                |
| Reverse percentage                      | U286                    |                                   |                                |
| One quantity as a percentage of another | U349                    |                                   |                                |
| Write as a ratio                        | U687                    |                                   |                                |
| Share in a ratio                        | U577                    |                                   |                                |
| Use of ratio                            | U753, U176, U577        |                                   |                                |
| 1:n form                                | U687                    |                                   |                                |
| Direct proportion                       | U721, U640, U238        |                                   |                                |
| Currency conversion                     | U610                    |                                   |                                |

| <b>Geometry</b>                    |                         |                                   |                                |
|------------------------------------|-------------------------|-----------------------------------|--------------------------------|
| <b>Content</b>                     | <b>Sparx Unit Codes</b> | <b>Sparx Independent Learning</b> | <b>Practice Exam Questions</b> |
| Speed                              | U151                    |                                   |                                |
| Average speed                      | U151, U462              |                                   |                                |
| Density                            | U910                    |                                   |                                |
| Circles                            | U767, U604, U950        |                                   |                                |
| Parallel and perpendicular lines   | U121                    |                                   |                                |
| Plan and elevation                 | U743                    |                                   |                                |
| Angles in a triangle               | U628                    |                                   |                                |
| Vertically opposite angles         | U730                    |                                   |                                |
| Angle properties of parallel lines | U826                    |                                   |                                |
| Angles in a polygon                | U427                    |                                   |                                |
| Area of a rectangle                | U993                    |                                   |                                |
| Area of a triangle                 | U945, U343              |                                   |                                |
| Area of a trapezium                | U265, U343              |                                   |                                |
| Volume of a cube                   | U786                    |                                   |                                |
| Volume of a cylinder               | U915                    |                                   |                                |
| Pythagoras's Theorem               | U385                    |                                   |                                |

| <b>Probability</b> |                                    |                                   |                                |
|--------------------|------------------------------------|-----------------------------------|--------------------------------|
| <b>Content</b>     | <b>Sparx Unit Codes</b>            | <b>Sparx Independent Learning</b> | <b>Practice Exam Questions</b> |
| Probability scale  | U803, U408, U510                   |                                   |                                |
| Probability        | U803, U408, U510, U683, U166, U580 |                                   |                                |
| Frequency tree     | U280                               |                                   |                                |
| Tree diagram       | U558, U729                         |                                   |                                |
| Combined events    | U104                               |                                   |                                |

| <b>Statistics</b>         |  |                                   |                                |
|---------------------------|--|-----------------------------------|--------------------------------|
| <b>Content</b>            | <b>Sparx Unit Codes</b>                  | <b>Sparx Independent Learning</b> | <b>Practice Exam Questions</b> |
| Pictogram                 | U506                                     |                                   |                                |
| Bar chart                 | U363, U557                               |                                   |                                |
| Interpret graph           | U193, U277                               |                                   |                                |
| Two-way table             | U981                                     |                                   |                                |
| Frequency table           | U981, U312                               |                                   |                                |
| Stem and leaf diagram     | U200, U909                               |                                   |                                |
| Frequency polygon         | U840                                     |                                   |                                |
| Mode, median, mean, range | U260, U569, U854, U456, U291, U877, U526 |                                   |                                |