

## Year 9 Maths Foundation tier EoY Exam Revision List

Dear Parents and Carers,

Find attached the revision lists for your son's end of year exams. I have included the clip numbers for Sparx Maths. Your son needs to go through each list and RAG rate the topics to help him identify the priority areas for his revision. If you have any questions, please email me at [msegbafah@ernestbevin.london](mailto:msegbafah@ernestbevin.london) or contact your son's Maths teacher.

This revision list as a **guide** and is not an exhaustive list of every question on the test, but covers all of the key skills needed for the test. Your son should do the following below;

**RAG each topic** and start with his **RED** ones. **Watch** the videos and complete the **quizzes**.

**Re-watch** the video if necessary and complete a '**building block**' to gain confidence.

**Use link** <https://support.sparx.co.uk/docs/independent-learning> to guide his Sparx independent revision.

| Strand  | Topic  | Sparx Code  | R<br>A<br>G |
|---|--|---|-------------|
| Number  | Index rules with positive and negative indices   | U235, U694  |             |
|   | Using standard form operations including calculations with positive and negative indices                 | U330,U534,U264,U290,U161                                  |             |
|   | Estimation, Rounding integers and decimals using significant figures                                     | U298,U731,U965  |             |
|   | Finding error intervals,Truncating decimals,Finding error intervals for truncated numbers                | U225,U657,U108,U301                                       |             |
|   | Fractions and its applications   | U679,<br>U163,U704,U646,U746,U736,U696<br>,U439,U475,U544 |             |
|   | Fractions, decimals and percentages applications and operations  | U874,<br>U888,U594,U925,U881,U916,U554<br>,U349,U773,U671 |             |
|   | Finding the percentage an amount has been changed by   | U278  |             |
|   | Finding factors and using divisibility tests   | U211  |             |
|   | Prime factor decomposition, Finding the lowest common multiple (LCM) and the highest common factor (HCF) | U751, U529, U236, U739,U250                               |             |
| Algebra                                       | Substituting into algebraic formulae and real-life formulae  | U585,U144   |             |
|   | Simplifying expressions by collecting like terms   | U105  |             |
|   | Simplifying expressions using index laws   | U662  |             |
|   | Expanding single and double brackets   | U179,U768   |             |
|   | Factorising into one bracket   | U365  |             |
|   | Factorising quadratic expressions of the form $\$x^2+bx+c\$$   | U178  |             |
|   | Factorising the difference of two squares  | U963  |             |
|   | Simplifying algebraic fractions by cancelling common factors   | U103  |             |
|   | Changing the subjects of formulae  | U556  |             |
|   | Solving equations of different types   | U755,U325,U870,U505,U599                                  |             |
|   | Inequalities   | U509,U759   |             |
|   | Constructing and solving simultaneous equations  | U137  |             |
|   | Graphs of quadratic , cubic and reciprocal functions   | u989,U667,U980,U593                                       |             |
|   | Plotting linear real-life graphs   | U652  |             |
|   | Using and interpreting linear real-life graphs   | U638  |             |
|   | Finding equations of linear real-life graphs   | U862  |             |
| Reading, converting and calculating with time | U902   |   |             |
| Converting units of length, mass and capacity | U388   |   |             |

|  |   |                          |  |
|--|---|--------------------------|--|
| <b>Ratio,<br/>Proportion<br/>,Rates of<br/>Change and<br/>Geometry</b> | Converting units of area and volume   | U248,U468                |  |
|  | Problem solving: Converting units of length, area and volume  | U663                     |  |
|  | Converting between ratios, fractions and percentages  | U176                     |  |
|  | Mixed problems: Finding the area and perimeter of simple shapes   | U993                     |  |
|  | Finding the area of triangles,area of compound shapes containing triangles, parallelograms and trapeziums | U945,U970,U575,U424,U265 |  |
|  | Angles on a line ,about a point, in triangles,quadrilaterals and parallel lines                           | U390,U628,U732,U826      |  |
|  | Angles in polygons  | U427                     |  |
|  | Finding unknown angles in right-angled triangles  | U545                     |  |
|  | Angles of elevation and depression  | U967                     |  |
|  | Calculating with trigonometry and bearings  | U164                     |  |
|  | Mixed problems: Understanding similarity and congruence   | U790, U112,U866          |  |
|  | Finding the area of circles, sectors  | U950, U373               |  |
|  | Plans and elevations  | U743                     |  |
|  | Finding the surface area of cylinders,cones,spheres   | U464,U523,U893           |  |
|  | Mixed problems: Finding the volume of cones and spheres   | U426                     |  |
|  | Understanding column vectors,Adding and subtracting column vectors,Multiplying column vectors by a scalar | U632,U903,U564           |  |
|  | Translation,Reflection  | U196,U799.U766           |  |
|  | Constructing triangles, bisectors of angles   | U187, U787               |  |
| Mixed problems: Loci, Constructing bisectors and perpendicular lines   | U820, U245,U979   |                          |  |
| Measuring and drawing bearings,Calculating bearings                    | U525,U107,U887  |                          |  |
| <b>Probability<br/>and Statistics</b>                                  | Writing probabilities as fractions, decimals and percentages  | U408,U510                |  |
|  | Presenting data and making conclusions  | U571                     |  |

### Useful Websites

[www.mathsgenie.co.uk](http://www.mathsgenie.co.uk)

[www.corbettmaths.com](http://www.corbettmaths.com)

[www.sparxmaths.com](http://www.sparxmaths.com)