QEHS Maths Dept Revision List – October Mock - Higher

Queen Elizabeth High School
Respect. Engage. Aspire.

15th-23rd October Calculator

- The most effective way of revising for a Maths assessment is to **practice as many questions as you can** on the topics that will appear on the assessment.
- The **Independent Learning** area of **Sparx** is ideal for this practice as it covers all topic areas, you can adjust the level of difficulty depending on how confident you are feeling, it gives you immediate feedback about how you are doing, and it supports you with a bespoke video for every single question!
- Start by self-evaluating (**R**ed, **A**mber, **G**reen) your confidence in each topic.
- Focus your revision on the topics you feel will be most beneficial.
- Work through the Sparx questions for a topic. If you are unable to answer a question you should watch the support video and then reattempt the question. If you are still unable to answer a question you should attend drop-in to seek further support.
- If you are finding a topic too challenging, then remember you can lower the difficulty level. If you are finding questions too easy, then you can increase the difficulty level.

Sparx Independent Learning GCSE (approx) Difficulty Levels

Level 1 – if you are following the **foundation** course and feel you need support to make progress with your Maths work.

Level 2 – if you are following the **foundation** course and are working at, or aiming for, a Grade 4.

Level 3 – if you are following the **foundation** course or the **higher** course are working at, or aiming for, a Grade 5.

Level 4 – If you are following the **higher** course and are aiming for a Grade 6 or Grade 7.

Level 5 - If you are following the **higher** course and are aiming for a Grade 8 or Grade 9.

Topic	Sparx Code	Red	Amber	Green	Revised
Converting units of length, mass and capacity	U388				
Presenting data and making conclusions	U571				
Identifying parts of circles	U767				
Constructing and solving equations	U599				
Interpreting pie charts	U172				
Drawing and interpreting scale diagrams	U257				
Measuring and drawing bearings	U525				
Constructing fractions, Simplifying fractions	U163,U646				
Writing and simplifying ratios	U687				
Converting between ratios, fractions and percentages	U176				
Position-to-term rules for arithmetic sequences	U498				
Finding fractions of amounts	U916				
Using equivalent ratios to find unknown amounts	U753				
Venn diagrams	U476				
Equations of parallel lines	U377				
Finding the equation of a straight line	U477				
Finding unknown sides in right-angled triangles	U283				
Angles in polygons	U427				
Calculating with speed	U151				
Expanding single brackets	U179				
Growth and decay	U988				
Using the product rule for counting	U369				
Writing algebraic proofs	U582				
The sine rule	U952				
Position-to-term rules for quadratic sequences	U206				
Graphs of linear inequalities	U747				
Factorising quadratic expressions of the form ax^2+bx+c	U858				
Writing algebraic proofs	U582				
Finding the volume of spheres, Finding the volume of cylinders	U617, U915				
Enlargement by a positive or negative scale factor	U134				
Sketching quadratic graphs	U310				
Finding the perimeter and area of similar shapes, The area rule	U630,U592				

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Topic	Sparx Code	Red	Amber	Green	Revised
Position-to-term rules for sequences of patterns	U978				
Reading and plotting coordinates	U789				
Calculating midpoints	U933				
Sample space diagrams	U104				
Function machines with numbers	M175				
Converting between fractions, decimals and %	U888				
Using appropriate units	U497				
Substituting into real-life formulae	U144				
Solving direct proportion word problems	U721				
Constructing and solving equations	U599				
Calculating with roots and powers	U851				
Finding the mode	U260				
Calculating the median	U456				
Percentage change with a calculator	U671				
Interpreting scatter graphs, Using lines of best fit	U277,U128				
Area and perimeter of simple shapes	U993				
Writing and simplifying ratios	U687				
Probabilities of mutually exclusive events	U683				
Expected results from repeated experiments	U166				
Understanding congruence, Congruent triangles	U790,U866				
Constructing and solving equations	U599				
Calculating experimental probabilities	U580				
Interpreting pie charts	U172				
Drawing and interpreting scale diagrams	U257				
Measuring and drawing bearings	U525				
Position-to-term rules for arithmetic sequences	U498				
Finding fractions of amounts, Using equivalent ratios to find unknown amounts	U916, U753				
Venn diagrams	U476				
Using Pythagoras' theorem in 2D	U385				
Equations of parallel lines	U377				
Finding the equation of a straight line	U477				