



Year 10 Summer Mock (H)

How to revise Maths:

You can follow the below process for each topic:

1. Speak to your teacher about topics you don't understand
2. Look through previous assessments to see any previous areas you struggled with.
3. Review the topics listed in the revision list and revise them from your exercise book
4. Review online videos and tutorials explaining these topics areas.
5. Review any topics you need to practice on SparxMaths before the assessment.

Additional Information:

- Remember to look through your own notes from class and use any revision material you have.
- Email your class teacher if you need any help.
- Use the codes attached to revise topics on Sparx Maths.

Revision list:

Solving single inequalities	U759
Prime factor decomposition	U739
Sharing amounts in a given ratio, Finding fractions and percentages of amounts	U577, U881, U554
Using standard form with negative indices	U534
Using standard form with positive indices	U330
Multiplying and dividing numbers in standard form	U264
Angles in polygons	U427
Plotting graphs of quadratic functions	U989
Solving quadratic equations graphically	U601
Volume of cuboids, Calculating with density, Writing and simplifying ratios	U786, U910, U687
Finding averages from grouped data	U877
Finding the surface area of cubes and cuboids	U929
Drawing cumulative frequency graphs	U182
Interpreting cumulative frequency graphs	U642
Calculating with ratios and algebra	U676
Converting recurring decimals to fractions	U689
Using Pythagoras' theorem in 2D, Finding the area of circles	U385, U950
Estimating gradients of non-linear graphs using tangents	U800
Calculating distances from velocity-time graphs	U611
Geometric proofs with vectors	U560
Solving geometric problems using vectors	U781
Tree diagrams for independent events	U558
Constructing direct proportion equations, Constructing inverse proportion equations	U407, U138
Multiplying mixed numbers, Indices of the form $1/a$, Negative indices	U224, U985, U694
Adding and subtracting algebraic fractions, Using the quadratic formula	U685, U665
Equations of circles and tangents	U567
Finding the area of sectors	U373
Using Pythagoras' theorem in 2D	U385
Substituting into algebraic formulae	U585
Changing the subjects of formulae	U556
Constructing and solving equations, Writing and simplifying ratios	U599, U687
Solving direct proportion word problems, Percentage change with a calculator	U721, U671
Drawing and interpreting frequency polygons	U840
Calculating with speed	U151
Finding the area of trapeziums	U265
Finding equations of linear real-life graphs	U862
Index rules with positive indices, Indices of the form $1/a$	U235, U985
Index rules with positive indices	U235
Finding original values in percentage calculations	U286
Using the product rule for counting	U369
Finding unknown sides in right-angled triangles	U283
Adding and subtracting column vectors, Multiplying column vectors by a scalar	U903, U564
Factorising the difference of two squares	U963
Expanding triple brackets	U606
Geometric proofs with congruence and similarity, Circle theorems	U887, U459
Finding error intervals for calculations	U587
Drawing histograms with unequal class widths	U814
Interpreting histograms	U983
Using Pythagoras' theorem in 3D, Finding the area of trapeziums, 3D Trigonometry	U541, U265, U170
Adding and subtracting algebraic fractions	U685
Using recurrence relations	U171
Tree diagrams for dependent events	U729
Solving simultaneous equations involving quadratics	U547