Year 11 Mock Exams – November 2025

Subject	Maths – Foundation and Higher tier	
Title/Topic	**Format**	**Length**
Paper 1	Non Calculator	1hr 30
Paper 2	Calculator	1hr 30

In this Advent assessment I will be asked to show I can…

Foundation

Finding the lowest common multiple (LCM)	Prime factor decomposition
Calculating with roots and powers	Expanding single brackets
Calculating with and ordering integers	Recognising types of graphs
Estimating and measuring	Mean, median, mode and range
Understanding, measuring and drawing angles	Dividing with mixed numbers
Finding areas using grids	Using probability phrases
Area and perimeter	Sample space diagrams
Multiplying and dividing with negative numbers	Converting units of length, mass and capacity
Calculating with roots and powers	Sequences
Constructing fractions, Simplifying fractions	Distance-time graphs
Adding and subtracting decimals	Time
Converting between mixed numbers and improper fractions	Rates of change
Drawing and interpreting pictograms	Angles in triangles
Substituting into algebraic formulae	Simplifying expressions using index laws
Solving equations	Simplifying expressions by collecting like terms
Converting between fractions, decimals and percentages	Reading and drawing inequalities on number lines
BIDMAS	Substituting into expressions
Converting units of length, mass and capacity	Understanding and ordering decimals
Percentage change	Angles on parallel lines
Equivalent ratios	Using algebraic notation
Drawing bar charts	Constructing and solving simultaneous equations
Write numbers as percentages of other numbers	Area and perimeter of compound shapes
Calculating with speed	Growth and decay
Angles on a line and around a point	Finding the surface area of cubes and cuboids
Forming and solving equations	Plotting graphs of quadratic functions
Prime numbers	Interpreting pie charts
Share amounts in a given ratio	Finding unknown sides in right-angled triangles
Fractions of amounts	Estimating calculations
Scatter graphs	Factorising and solving quadratic expressions

Higher

Multiplying and dividing decimals	Algebraic fractions
Solving single inequalities	Speed, distance time
Calculating with fractions	Interpreting equations of straight line graphs
Averages	Converting between fractions, decimals and percentages
Angles on a line and about a point	Scale diagrams
Finding prime numbers	Growth and decay including compound interest
Share amounts in a given ratio	Volume and surface area of cubes and cuboids
Find fractions of amounts without a calculator	Plotting graphs of quadratic functions
Prime factor decomposition	Interpreting pie charts
Expanding single brackets	Finding unknown sides in right-angled triangles
Graphs of reciprocal functions	Estimating calculations
Forming and solving equations	Calculating experimental probabilities
Set notation	Reverse percentages
Standard form	Percentages of amounts
Calculating Range, Calculating Median	Interpreting histograms
Similarity and congruence	Drawing box plots
Angles in parallel lines	Pythagoras' theorem
Simultaneous equations	Solving equations
Surface area	Plans and elevations
Estimating roots and powers	Enlargements
Using the product rule for counting	Sine and cosine rule
Completing the square	Calculating bearings
Calculating with surds	Expanding double brackets
Converting recurring decimals to fractions	Calculating the equation of a straight line
Equations of parallel and perpendicular lines	Bounds
Exact trig values	Adding and subtracting algebraic fractions
Circumference of circles	

What should I do to revise and prepare for this assessment?

- Use the revision technique showed to you in class to create purposeful flashcards.
- Use the Leitner System to self test these flashcards until you can remember all of them. Here is a link to a video on the Leitner System: Leitner System for Flashcards (youtube.com)
- Use the grid on the back of your Project 25 papers that you have completed this year and use the Sparx codes next to the questions you got wrong to go over these topics.
- Once you have done some revision on the areas from the project 25 paper that you struggled with you can re-do the paper to see if you improve your score.
- Complete the target and XP boost homework on Sparx, in addition to the compulsory homework.
- If you have a revision workbook, you can work through the topics.

What useful websites/resources could I use to help me prepare?

SparxMaths and CorbettMaths are the best websites to revise for Maths, particularly SparxMaths.

Use Project 25 papers, past papers, revision guides and flashcards alongside all your work booklets as revision material.