Year 11 Mock Exams Autumn Term 2023: Mathematics - Foundation

Exam(s):

Paper 1: Non-Calculator (80 marks - 90 minutes)

Paper 2: Calculator (80 marks - 90 minutes)

Paper 3: Calculator (80 marks - 90 minutes)

Foundation Revision Topic List		
Content	**SKILL**	**SPARX CODE**
NUMBER		
	Writing probabilities as fractions	U408
	Using standard form with positive indices	U330
	Using standard form with negative indices	U534
	Using a calculator	U926
	Estimating calculations	U225
	Finding fractions of amounts with a calculator	U916
	Converting units of length, mass and capacity	U388
	Reading, converting and calculating with time	U902
	Ordering negative numbers	U947
	Adding and subtracting integers	U417
	Solving direct proportion word problems	U721
	Calculating midpoints	U933
	Calculating with speed	U151
	Converting between fractions, decimals and percentages	U888
	Adding and subtracting mixed numbers	U793
	Simple interest calculations	U533
	Using a written method to multiply integers	U127
	Multiplying and dividing with negative numbers	U548
	Growth and decay	U988
	Rounding integers	U480
	Finding original values in percentage calculations	U286
	Ordering fractions	U746
	Finding the HCF and LCM using prime factor decomposition	U250
	Finding the lowest common multiple (LCM)	U751
	Adding and subtracting numbers in standard form	U290
	Calculating with roots and powers	U851
	Finding the highest common factor	U529
	Finding percentages of amounts with a calculator	U349
	Calculating with density	U910
	Rounding decimals using significant figures	U965
	Multiply with mixed numbers, improper fractions	U224,U692
	Add & subtract decimals, multiply & divide with decimals	U478,U293,U868
	Understanding and ordering decimals	

	Finding prime numbers	U435
	Use and interpret linear real-life graphs, Convert units of le & capacity	U236
		U638,U388
	Understanding and ordering integers	U600
	Prime factor decomposition	U739
ALGEBRA		
	Solving equations with two or more steps	U325
	Position-to-term rules for arithmetic sequences	U498
	Substituting into real-life formulae	U144
	Simplifying expressions by collecting like terms	U105
	Plotting straight line graphs	U741
	Plotting graphs of quadratic functions	U989
	Factorising into one bracket	U365
	Solving quadratic equations graphically	U601
	Simplifying expressions using index laws	U662
	Function machines with letters, Constructing and solving eq	M428,U599
	Function machines with numbers	M175
	Changing the subject of formulae with two or more steps	U181
	Finding equations of straight line graphs	U315
	Solving inequalities with the unknown on both sides	U738
	Finding unknown sides in similar shapes	U578
	Equations of parallel lines	U377
	Using algebraic notation	U613
	Using and interpreting linear real-life graphs	U638
	Substituting into algebraic formulae	U585
	Reading and plotting coordinates	U789
RATIO PROPORTION		
	Fractions of amounts, Writing and simplifying ratios	U916,U349,U687
	Fractions of amounts, Combining ratios & percentages	
	Writing and simplifying ratios	U881,U921,U888
	Calculating with rates	
		U687
		U256
GEOMETRY MEASURE		
	Line & shape properties, Angles on parallel lines, equations	U121,U826,U599
	Constructing loci	
	Angles on a line and about a point	U820
	Identifying parts of circles	U390
	Using a ruler	U767
	Understanding, measuring and drawing angles	M985

	Reflection	U447
	Finding the area of compound shapes, proportion word pro	U799
	Using Pythagoras' theorem in 2D, Rounding using significar	U970,U721
	Finding the volume of cylinders, Calculating with rates	U385,U965
	Rotation	U915,U256
	Drawing and interpreting scale diagrams	U696
	Angles in triangles, Writing and simplifying ratios	U257
	Line and shape properties	U628,U687
	Plans and elevations	U121
	Translation	U743
		U196
STATISTICS		
	Finding the area and perimeter of simple shapes	U993
	Finding averages from grouped data	U877
	Drawing bar charts	U363
	Sample space diagrams	U104
	Interpreting stem-and-leaf diagrams	U909
	Interpreting frequency tables and two-way tables	U981
	Drawing pie charts	U508
	Drawing and interpreting pictograms	U506
	Interpreting bar charts	U557
PROBABILITY		
	Probabilities as fractions, decimals and percentages, in a r	U510,U577
	Venn diagrams with set notation	U748
	Tree diagrams for independent events	U558

Tips on different revision techniques, including subject specific activities can be found in the Student Study Support Guide.

Top Maths websites for revision are;

Maths genie - www.mathsgenie.co.uk
Corbett maths - corbettmaths.com
And
Sparx maths - www.sparxmaths.com