

Subject	Mathematics - Foundation				
Title/Topic		Format	Length	Date & Time	
Paper 1 – Non-Calculator		Written Exam	1 hour 30 minutes	Tue 22 November Afternoon	
Paper 2 – Calculator Allowed		Written Exam	1 hour 30 minutes	Fri 25 November Afternoon	

My Advent assessment will test my knowledge on...

Students in **11X4**, **11X5**, **11Y3**, **11Y4** will sit the foundation tier papers. Below is a list of topics that will be tested across both papers. The number to right is the Hegarty clip. **Algebra**

Substitute into a complex formula	278
Angles on a straight line, angles around a point	478,814
Solve 2-step equations (involving multiplication)	179
Geometric sequences	264
Perimeter	552
Change the subject of the formula (2-step)	281
Set-up and solve equations, substituting and solving	188,189
Straight line graphs	209,213
Multiplying by powers of 10	15
Simplify expressions with multiplication and division	158,159,156
Solve 2-step equations (involving multiplication)	179
Linear sequences, set-up and solve equations	197,188
Factorise simple expressions	169
Substitution	783
Factorise simple expressions	168
Writing algebraic expressions	151
Change the subject of a formula	281
Straight line graphs	212

Probability

Counting sets using Venn diagrams	379,383
Relative frequency	357
Venn diagrams for probability	383
Probability of an event not happening	353
Two-way tables	422
Frequency trees	368
Counting sets using Venn diagrams	379,383
Relative frequency	356,357
Probability of single events	351
Probability of single events	352

Statistics

Critique a bar chart	425
Bar charts and vertical line graphs	425
Scatter diagrams	453
Range	410
Read and interpret pictograms	426
Read and interpret pictograms	426



Geometry	
Scale diagrams with bearings	869
Set-up and solve equations	188
Circumference and arc length	536
Corresponding angles	483
Volume of cuboids	568
Describe transformations	651
Trigonometry (find angle)	511
3D shapes	830
Translations	637
Pythagoras (longer side)	498
Pythagoras (longer side)	498
Scale diagrams with bearings	869
Volume of a sphere, Conversions problem solving	580,715

Number

Standard form to ordinary	123
Factors of a number	27
Convert fractions to decimals, compare decimal numbers	73,46
Frequency trees	368
Division with decimal numbers	49
Convert simple decimals to fractions	52
Square roots, index form	101,102
Read and write positive integers	13
Income and rates of pay	755
Fractions to decimal conversions	48,68,73
Multiple of a number	33
Order of operations with positive integers	24
Money	745
Adding and subtracting positive and negative numbers	41
Ordinary to standard form	122
Operations with negative numbers, proof and counterexamples	41,42,43,324
Multiplication with decimals	48

Ratio

Write ratios as fractions/proportions	330
Scale diagrams with bearings	869
Express one number as a fraction of another	62
Income and rates of pay	755
Converting length	692
Converting time (worded problems)	711,710
Share in a given ratio	333
Share in a given ratio, money problem solving	332,753
Share in a given ratio, fractions of an amount	333,77
Converting time (worded problems)	711
Two-way tables	423
Metric and imperial conversions	705
Find percentages of amounts	85,86
Area (counting squares), writing and simplifying ratios	553,328,329
Two-way tables	422
Direct proportion	341



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

To prepare for this assessment:

- 1. Study carefully the topic list provided for you above. **Work through each of the Hegarty tasks** that are given next to each topic. Watch the Hegarty lesson video, then attempt the practice questions on-line.
- 2. Complete the weekly past paper tasks as part of **Project 25**. It is important you attempt all questions, check your answers using the available mark scheme and then write in any corrections from the mark scheme with your red pen. Record your performance on the summary sheet in your booklet, marking on any questions you want your teacher to review or revisit.
- 3. **Complete your revision workbook** that your teacher has provided you. You should work through all the questions in your revision workbook, checking your work using the answers provided. You could ask your parent or relative to check your work with you, and discuss the areas you need to revisit. This revision workbook must be **completed in full and handed in to your teacher** for checking the day of your first assessment.
- 4. **Study the knowledge organisers** booklet provided to you. You should use the technique of **'look, cover, check'** to ensure you can recall all of the key facts and techniques for the identified topics.
- 5. Listen attentively during your Immersion Revision Session which will take place in your Project 25 Friday lessons over the next five weeks. Your teacher will provide you with a number of key tips to help you succeed. They will revisit the topics listed above.

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

Project 25 Papers – Found in your workbook. Revision Booklet to be handed to you by your teacher.

You can access revision lessons on Hegarty Maths. Use the reference numbers above to search for the relevant tasks. Your teacher may set you specific tasks to complete as part of your homework.

https://www.hegartymaths.com