

Subject	Mathematics (Higher Tier)			
Title/Topic		Format	Length	Date & Time
Paper 1 – Non Calculator		Written Exam	1 hour	Wed 15 March
			30 minutes	12.40pm
Paper 2 – Calculator Allowed		Written Exam	1 hour	Wed 16 March
			30 minutes	12.40pm

This assessment will test my knowledge on				
This assessment information lists topics that youmay be tested on. Not all topics will be on yourtest. The foundation assessment is for students in11X1, 11X2, 11X3, 11Y1 & 11Y2.Number• Surds• Product rule for counting• FDP conversion• Recurring decimals• Laws of indices• Standard form• HCF & LCM• Upper and lower bounds• Powers and roots• Fractions of amounts• Negative numbers	Patio Share in a given ratio Ratios to fractions Speed Vectors Percentage of amounts Reverse percentages Ratio in the form n:1 and 1:n Geometry Pythagoras and Trigonometry Sine Rule and Cosine Rule Exact Trigonometric values Transformations Circle theorems Tangents Volume of shapes / Area of 2D shapes Vectors Bearings Proof Arc length and areas of sectors Invariant points			
 Sketch curves Speed-time Composite & inverse functions Linear & Fibonacci sequences, triangular numbers Double inequalities Change the subject Factorisation Difference of two squares Linear equations, equations of circles Solve quadratics Form and solve equations 	 Invariant points Statistics Histograms Mean, median, mode and range Quartiles Two-way tables, Venn diagrams, frequency tables, bar charts Cumulative frequency & box plots Probability Conditional probability, dependent & independent events, relative frequency, mutually exclusive probabilities. 			



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 Sparx Maths tasks as part of your homework. After half term ,your teacher will give you a list of sparx tasks you can attempt in addition to your homework to help you prepare for your mock.
- 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. **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.
- 4. Listen attentively during your Past Paper sessions which will take place in your Project 25 Friday lessons each week. Your teacher will provide you with a number of key tips to help you succeed. They will highlight questions on the content listed above.

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

Project 25 Papers. Revision Workbooks.

You can access revision lessons on Sparx Maths and Hegarty Maths.

www.sparxmaths.uk/student

www.hegartymaths.com