

Subject Curriculum Map: Mathematics Year 11 Foundation 2023-24

Exam Board : Edexcel – 100% terminal Examination

Curriculum intent –To build on skills and knowledge taught in Y7-Y10 and develop a greater understanding of topics required for GCSE, A Level & Life.

Curriculum Implementation-Y11 is taught in slightly smaller groups as we split our middle sets to offer more support to students aiming for a grade 5 and is set according to current skills and ability. This means that all groups sizes can be adjusted slightly giving each student more teacher time in lesson. It is taught over 7 lessons per fortnight. Homework is used to consolidate learning/extend learning and is set weekly and generally consists of Exam papers. Teachers use a range of different methods to help students learn; text book, video clips, tarsia, treasure hunt, paired/group work, peer and self-assessment is encouraged. The vast majority of work is differentiated to support/stretch students. All lessons in Y11 start with 10 minutes Corbett Maths 5 a day Questions then go through answers. Students are encouraged to attend maths club for extra support when needed. Following the Mock Exam closs to Christmas we spend time going back over topics that were not answered well to enable students to revisit and consolidate their learning

Curriculum Impact - To nurture a feeling within every student of being able to be successful in using maths in everyday situations and start to develop a love for the subject. Y11 curriculum further embeds the core skills required to go on and achieve the best grade possible at GCSE and therefore to open up as many opportunities as possible for future careers and future/lifelong learning. The consolidation offered builds confidence in maths skills needed for adult life.

Year 11	Aut 1 Weeks	Aut 2 weeks	Spring 1 weeks	Spring 2 Weeks	Summer 1 weeks	Summer 2 weeks
Themes/Concepts/Ideas	SSM/Number	SSM/Revision for Mocks	Algebra	Revision	Revision	Exams
Unit	17 & 18	19	20	Target 3 Or Target 5	Exam Papers	
Knowledge and understanding	Perimeter, area and volume 2: circles, cylinders, cones and spheres More fractions, reciprocals, standard form, zero and negative indices	Congruence, similarity and Vectors	Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations	Various depending on unit covered, which is sometimes chosen based on mock papers completed	All Foundation GCSE course	
Subject specific skills-Prior Knowledge	Students should know the formula for calculating the area of a rectangle <i>from Unit 8</i> . Students should know how to use the four operations on a calculator <i>from Unit 1</i> Students should know how to do the four operations with fractions <i>from Unit 4</i> Students should be able to write powers of 10 in index form and recognise and recall powers of 10, i.e. $10^2 = 100$ <i>from Unit 1</i> Students should recall the index laws <i>from Unit 1</i>	Students will have used column vectors when dealing with translations <i>from Unit 10</i> Students can recall and apply Pythagoras' Theorem on a coordinate grid <i>from Unit 12</i> Students should be able to recognise and enlarge shapes and calculate scale factors <i>from Unit 10</i> Students know how to calculate area and volume in various metric measures <i>from Unit 8 & 17</i> Students should be able to measure lines and angles and using compasses, ruler and protractor, and construct standard constructions <i>from Unit 15</i>	Students should be able to draw linear graphs <i>from Unit 9</i> Students should be able to plot coordinates and sketch simple functions with a table of values <i>from Unit 9</i> Students should be able to substitute into and solve equations <i>from Unit 5</i> Students should have experience of using formulae <i>from Unit 2</i> Students should recall and use the hierarchy of operations and use of inequality symbols <i>from Unit 2 & 5</i>	Topics that students request are covered, topics that students have struggled with in homeworks, tests and on SAM learning are covered.		
SMSC	Safe Learning Environment Appreciate the role of mathematics Explore patterns/relationships Benefit from Advice Work successfully in a group Take a Leadership Role Develop the ability to reflect Show Persistence Use logical Reasoning	Explore patterns/relationships Benefit from Advice Work successfully in a group Exercise Responsibility Take a Leadership Role Show Persistence Use logical Reasoning	Use logical reasoning Benefit from advice Show persistence Develop the ability to reflect Appreciate the Role of Mathematics Appreciate the Heights of Human Achievement	Appreciate the Role of Mathematics Appreciate the Heights of Human Achievement Benefit from Advice Appreciate the intangible Recognise the Use and misuse of Data Develop the ability to reflect Take a leadership role Show persistence	Benefit from Advice Develop the ability to reflect Show persistence Use logical Reasoning Exercise Responsibility	
Skills For life	Problem Solving Numeracy Independence Teamwork Creativity Leadership Independence Numeracy	Problem Solving Creativity Leadership Empathy	Problem Solving Independence Teamwork Leadership Creativity	Problem Solving Independence Empathy Leadership Numeracy Problem Solving Independence	Problem Solving Independence Creativity Empathy Leadership Numeracy	
FBV	Mutual Respect	Mutual Respect	Mutual Respect	Mutual Respect Use/Misuse of Statistics	Mutual Respect Use/Misuse of Statistics	
Key assessment focus, suggested assessments	Check Up Strengthen/Extend End of Unit Test	Check Up Strengthen/Extend End of Unit Test	Check Up Strengthen/Extend End of Unit Test	End of Unit Test ½ termly Mock Exam	Mock Exam	

	½ termly Mock Exam	½ termly Mock Exam	½ termly Mock Exam			
Special events	-	-	-	-	-	-
Visits/extra curric	-	-	-	-	-	-
Homework/Independent Learning	Weekly to consolidate learning 4 Weekly assessed homework to consolidate knowledge, understanding and skills SAM Learning Corbett Maths	Weekly Exam Paper to consolidate learning 4 Weekly assessed homework to consolidate knowledge, understanding and skills SAM Learning Corbett Maths	Weekly Exam Paper to consolidate learning 4 Weekly assessed homework to consolidate knowledge, understanding and skills SAM Learning Corbett Maths	Weekly Exam Paper to consolidate learning 4 Weekly assessed homework to consolidate knowledge, understanding and skills SAM Learning Corbett Maths	Weekly Exam Paper to consolidate learning 4 Weekly assessed homework to consolidate knowledge, understanding and skills SAM Learning Corbett Maths	Bridging Unit for those returning to do A level Maths