

Welcome to Year 11 Maths

As you reach Year 11, your Mathematics studies become more and more focused on achieving success in your GCSE examinations. For this reason, large portions of the year will focus on achieving fluency and confidence in the most challenging topics within the course. These are also the topics will give you the greatest preparation for A-Level Maths as they form the bedrock of that content. Topics studied this year include:

- Pythagoras, Trigonometry & Vectors
- Quadratic Graphs, Equations & Inequalities
- Venn Diagrams and Conditional Probability
- Direct & Inverse Proportion
- Understanding the most challenging Algebra, Graphs & Functions

Assessment and Feedback

There are regular assessments in Maths that will help to track your progress, and inform teachers and parents of how you are performing against your targets. These take place at the end of each Unit and are generally 40 mark tests. They are reflective of the nature of questions you will see in your real GCSE examination.

There are 5 Units in Year 11 Maths. When you have completed a test, it will be marked by your teacher and there will be a review lesson to follow up on the test. You will then be set a review homework which will be targeted at the individual areas where you have struggled.

In the Spring Term, you will sit a Mock Exam and the results from this exam will be used to inform final decisions on Tier of Entry for the GCSE examination.

Classwork

Your books are periodically checked by your teacher to ensure that you are:

- Keeping appropriate notes & methods as shown by your teacher
- Presenting your work clearly and neatly, showing logical, mathematical steps
- Drawing margins & underlining titles
- Marking your own work and/or that of your peers using a different colour
- Not doodling in your book or tearing out pages

Homework

A range of homework tasks will be set by your teacher. They will include both online (MyMaths, Kerboodle) and offline tasks. Your feedback will be given in a variety of ways, including through BrightSpace and also written feedback which can be placed into your progress folder.

Exams

You will sit 3 terminal exams at the end of the GCSE Course (end of Year 11). Paper 1 is non-calculator and Papers 2-3 are calculator papers. Each of these papers are worth 80 marks and last 1 hour and 30 minutes.

The West Bridgford School Mathematics Department

Scheme of Work - 2018 Onwards - Summary Sheet

GCSE - YEAR 11

TIMETABLE PROMOTION (5 WEEKS)

WEEKS 1-5 PYTHAGORAS, TRIGONOMETRY & VECTORS

Support	Foundation	Intermediate	Higher
Squares & Cubes	Pythagoras	Surds	Sine Rule
	Missing Angles & Sides	Angles of Elevation & Depression	Cosine Rule
	SOHCAHTOA		Vectors

YEAR 10 into 11 GCSE MOCK within TT PROMO

AUTUMN TERM (15 WEEKS)

WEEKS 1-7 QUADRATIC GRAPHS, EQUATIONS & INEQUALITIES

Support	Foundation	Intermediate	Higher
Coordinates	Plotting Quadratics	Difference of Two Squares	Using the Quadratic Formula
	Expanding Double Brackets	Identities	Using the Discriminant
	Factorising Quadratics	Solving Quadratic Equations Graphically	
	Solving Quadratics by Factorising	Graphs in Completed Square Forms	Solving Quadratic Inequalities
	Solving Quadratics by Plotting Graphs	Completing the Square	Quadratic Simultaneous Equations
	Cancelling Algebraic Fractions	Sketching Quadratics Adding & Subtracting Algebraic Fractions	

WEEKS 8-10 PROBABILITY OF COMBINED EVENTS

Support	Foundation	Intermediate	Higher
Venn Diagrams	Tree Diagrams	Conditional Probability	
Set Notation & The Language of Probability	The OR Rule		
Listing Outcomes & Two Way Tables	The AND Rule		

WEEK 11 - Grade 5 Test for Foundation Groups

WEEKS 12-15 UNITS & PROPORTIONALITY

Support	Foundation	Intermediate	Higher
Square & Cubic Units	Speed	Exponential Graphs	Exponential Growth & Decay
	Density		
	Conversion Graphs Metric Conversion	Direct & Inverse Proportion	Exponential Functions
Unitary Method	Compound Interest Gradient & Intercept	Area & Volume Scale Factors	Construct & Interpret Equations requiring Direct & Indirect Proportion

SPRING TERM (11 WEEKS)

WEEKS 1-6 FURTHER ALGEBRA

Support	Foundation	Intermediate	Higher
Real Life Graphs	Recognising Quadratics, Cubics & Reciprocals	Reciprocal Graphs	Exponential Graphs
		Iteration	Equations of Circles
		Rearranging Complex Formulae	Transforming Graphs
	Distance Time Graphs	Function Notation	Transforming Trig Graphs
			Inverse Functions
		Composite Functions	

WEEKS 7-8 REVISION & MOCK EXAMS

WEEKS 9-11 REVISION - PAST PAPERS, REVISITING PROBLEM AREAS, STRETCH AND EXTEND WHERE POSSIBLE

SUMMER TERM (4 WEEKS)

REVISION - PAST PAPERS, REVISITING PROBLEM AREAS, STRETCH AND EXTEND WHERE POSSIBLE

