



[Maths] KEY STAGE 3 CURRICULUM MAP

Curriculum Overviews	Autumn 1	Autumn 2 7 Weeks	Spring 1 6 Weeks	Spring 2 6 Weeks	Summer 1 6 Weeks	Summer 2 7 Weeks		
Year 7	Place Value	Arithmetic	Expressions and Equations	Perimeter and Area	Fractions	Transformations		
	1.1 Place value in integers							
	1.2 Place value in decimals							
	1.3 Ordering and comparing numbers							
	1.4 Measures							
	Properties of Numbers	3.1 Addition and subtraction with negative integers	4.1 Introduction to algebra	6.1 Properties of quadrilaterals and triangles	7.1 Working with fractions and decimals	9.1 Translations		
	2.1 Multiples	3.2 Multiplication and division with negative integers	4.2 Formulae and equations	6.2 Perimeter	7.2 Comparing and ordering fractions	9.2 Rotations		
	2.2 Powers and roots	3.3 Addition and subtraction with decimals	4.3 Simplifying expressions	6.3 Area	7.3 Adding and subtracting fractions	9.3 Reflections		
	2.3 Factors and prime factorisation	3.4 Multiplication and division with decimals	4.4 Using the distributive law	End of term revision and assessment	7.4 Multiplying and dividing fractions	9.4 Scale diagrams		
		3.5 Efficient calculations	Coordinates		Ratio and Proportion	End of term revision and assessment	9.5 Enlargements	
		End of term revision and assessment						5.1 Plotting coordinates
								5.2 Coordinates, formulae, and graphs
Year 8	Estimating and Rounding	Sequences	Percentages and Proportionality	Statistics	Perimeter, area and volume	Constructions		
	1.1 Rounding to decimal places							
	1.2 Rounding to significant figures							
	1.3 Estimation	3.1 Features of sequences	5.1 Percentages	6.1 Representing data	7.1 Perimeter	9.1 Constructions using circles		
	Solving Linear Equations	3.2 Arithmetic sequences	5.2 Proportionality	6.2 Angles and pie charts	7.2 Area	9.2 Constructions using rhombuses		
		4.1 Connect coordinates, equations, and graphs	Linear Graphs	End of term revision and assessment	Polygons and Angles	End of term revision and assessment		
							4.2 Linear relationships	
		2.1 Solutions to linear equations					End of term revision and assessment	8.1 Symmetry
	2.2 One-step linear equations	8.2 Angle properties						
	2.3 Two-step linear equations	8.3 Angle properties of polygons						
2.4 Linear equations with brackets and fractions		8.4 Problem-solving with angles						



Year 9	Similarity and Congruence	Probability	Non Linear Sequences	Trigonometry	Standard Form	Linear and Non Linear Graphs
	1.1 Notation and naming	3.1 Likelihood and randomness	4.1 Non-Linear sequences	6.1 A different kind of proportionality	7.1 The multiplicative identity and power	
	1.2 Similarity	3.2 Probability: the chance of an outcome	4.2 Geometric sequences	6.2 A different kind of measure	7.2 Writing powers of ten in index form	
	1.3 Congruency	3.3 Combined events	4.3 Other types of sequences	6.3 Using trigonometric ratios to find sides	7.3 Writing large numbers in standard form	
	Pythagoras	End of term revision and assessment	Expressions and Formulae	6.4 Using trigonometric ratios to find angles	7.4 Writing small numbers in standard form	
	2.1 Pythagorean triples		5.1 Distributive Law	End of term revision and assessment		
	2.2 Finding the length of the hypotenuse		5.2 The difference of two square			
	2.3 Finding lengths in right angled triangles		5.3 Inverse Operations			
	2.4 Reasoning with right angled triangles		5.4 Changing the subject			
					8.1 Interpreting linear graphs	
					8.2 Modelling real life situations graphically	
					8.3 Quadratic and non linear graphs	
					6.4 Direct and inverse proportion	
					End of term revision and assessment	

Texts, Useful Websites:

Key Stage 3 (Year 7,8,9)
<p>www.sparxmaths.uk</p> <p>Mosaic – Oxford Smart</p> <p>www.mathspad.co.uk</p>

[MATHS] KEY STAGE 4 CURRICULUM MAP

Curriculum Overviews	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	Similarity Congruence, similarity and enlargement Trigonometry	Developing Algebra Representing solutions of equations and inequalities Simultaneous equations	Geometry Angles and Bearings Working with circles Vectors	Proportions and Proportional Change Ratios and fractions Percentages and Interest Probability	Delving into data Collecting, representing and interpreting data Using Number Non-calculator methods	Using Number Types of number and sequences Indices and roots Expressions Manipulating expressions
Year 11	Graphs Gradients and Lines Non Linear graphs Using graphs	Algebra Expanding and factorizing Changing the subject Functions	Reasoning Multiplicative reasoning Geometric reasoning Algebraic reasoning	Revision and Communication Transforming and constructing Listing and describing Show that...	Revision and examinations	

Texts, Exam Boards, and Useful Websites:

Key Stage 4 (Year 10 - 11)
Exam Board – Edexcel Higher and Foundation tiers www.mathspad.co.uk - online maths resource www.mathsgenie.co.uk - all exam papers, modelled solutions and mark schemes www.sparxmaths.uk – home learning resource www.pinpointlearning.co.uk – targeted independent revision based from completed exam papers



[Maths] KEY STAGE 5 CURRICULUM MAP

Curriculum Overviews	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12	Core Quadratics Equations and Inequalities Graphs and transformations	Statistics Data collection Measures of Location and spread Core Straight line graphs Circles Algebraic Methods	Mechanics Modelling Constant acceleration Forces and motion Core Binominal Expansions Trigonometric Ratios Trigonometric identities and equations	Statistics Representations of data Correlation Probability Statisical distributions Cumulative Probability Hypothesis Testing	Core Vectors Differentiation Integration Exponentials and Logarithms	Mechanics Variable Acceleration Commence Year 2 Alevel Course – Core Algebraic Methods Functions and graphs Sequences and Series
Year 13	Core Binominal Expansion Trig - radians, arcs and sectors Trig – Reciprocal functions and identities Trig – Angle addition and double angle identities Trig – Prove and solve Trig - modelling	Mechanics Moments Statistics Normal distribution Core Parametrics Diff – Chain and product rule Diff – Product and quotient rule Diff – Parametrics Mechanics Forces and friction	Core Implicit and rates of changes Mechanics Projectiles Statistics Correlation Conditional Probability Core Integrating $(ax+b)^n$, reciprocals, e and trig	Core Integrating by parts and substitution Differential equations and reverse chain rule Numerical methods Mechanics Statics Core Vectors Mechanics Dynamics	Mechanics Further Kinematics Revision and Examinations	Revision and Examinations



Texts, Exam Boards, and Useful Websites:

Key Stage 5 (Year 12 - 13)

Exam Board – Edexcel

www.physicsandmathstutor.com/maths

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html> - exam board specification and information

www.uplearn.co.uk

www.alevelmathsrevision.com

www.drfrost.org