Curriculum Overview

abilities.

exam questions

Maths Genie - https://www.mathsgenie.co.uk/

A free revision site. It has past papers, mark schemes and model answers to GCSE

Subject: MATHEMATICS

Year Group: 7



Year 7 Mathematics builds upon the mathematical skills developed through Key Stage 2. Pupils will cover five topic areas: number, algebra, statistics and probability, geometry and measure, and, ratio, proportion and rates of change. They will be presented in lessons with AO1 – using and applying standard techniques, AO2 – reasoning, interpreting and communicating mathematically, and AO3 – solving problems in mathematics and in other contexts. Pupils are given the opportunity to learn how to use scientific calculators efficiently and effectively. Skills acquired over term 1 are interleaved throughout year 7 to enhance long term retention.

TERM 1		TERM 2		TERM 3		
AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2	
Number Sense	Expressions and	2D Shapes	Primes	Angles	Fractions, Decimals and	
Calculations	equations	Area and Perimeter	Fractions	Handling Data	Percentages	
	Measures	Coordinates Factors and Multiples	Algebra - Brackets	Statistical Diagrams Proportion	Probability	
KNOWLEDGE/SKILLS Number sense Adding and subtracting Multiplying Dividing Calculating with negative numbers Order of operations	KNOWLEDGE/SKILLS Expressions Substitution Solving Equations Measures of Time Measures of Mass, Length and Capacity	KNOWLEDGE/SKILLS Line and Shape Properties Perimeter Area Coordinates and Shapes Factors and Multiples	KNOWLEDGE/SKILLS Prime Numbers Prime Factor Decomposition Writing and Comparing Fractions Adding and Subtracting Fractions Distributive Law Algebra – Single Brackets	KNOWLEDGE/SKILLS Types of angles, estimating, measuring and drawing angles. Finding Unknown Angles Averages and Range Tables and Charts Collecting and Presenting Data Solving Proportion Problems	KNOWLEDGE/SKILLS Multiply and divide Fractions Fractions of Amounts Fractions, decimals and Percentages Theoretical Probability	
KEY ASSESSMENTS		KEY ASSE	ESSMENTS	KEY ASSESSMENTS		
Year 7 Baseline Assessment Post Knowledge Checks Term 1 Assessment		Post Knowledge Checks Term 2 Assessment		Post Knowledge Checks End of Year Assessment		
External Resources and Extended Studies			Enrichment and Development			
SPARX Maths - https://sparxmaths.com/			Literacy words displayed in the maths corridor to promote key vocabulary used throughout			
Our main homework platform			the curriculum. Comprehension tasks scheduled for each half term encompassing literacy,			
Mathsbot - https://mathsbot.com/			diversity and inclusion, careers and cross-curricular links			
Differentiated activities to help build key skills as well as worksheets for			Careers in maths information displayed in the maths corridor to spark curiosity			
consolidation of work.			Diversity and inclusion, and women in maths posters displayed in the corridor to highlight			
Corbett Maths – https://corbettmaths.com			and celebrate important figures in maths			
5-a-day questions which are good problem-solving starter questions for all			Use of SPARX Maths and calculators			

Key dates in the maths calendar: Pi Day (March 14th) and National Numeracy Day (May)

Curriculum Overview

Subject: MATHEMATICS

Year Group: 8



Year 8 Mathematics builds upon the mathematical skills developed through Key Stage 2 and Year 7. Pupils will cover five topic areas: number, algebra, statistics and probability, geometry and measure, and, ratio, proportion and rates of change. They will be presented in lessons with AO1 – using and applying standard techniques, AO2 – reasoning, interpreting and communicating mathematically, and AO3 – solving problems in mathematics and in other contexts. Pupils are given the opportunity to continue developing the use of scientific calculators efficiently and effectively. Skills acquired in Year 7 are interleaved throughout year 8 to enhance long term retention.

TERM 1		TERM 2		TERM 3		
AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2	
Percentages	Sequences	Rounding	Venn Diagrams	Linear Graphs	Inequalities	
Money	Ratio	Coordinates	3D Shapes	Transformations	Algebra – Double	
Indices		Area	Surface Area and	Angles	Brackets	
Equations		Circles	Volumes	Statistical Diagrams	Algebraic Fractions	
_1		Standard Form			Recurring Decimals	
KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	
Percentages of Amounts	Term-to-Term Rule	Significant Figures	Venn Diagrams	Plotting Graphs and Finding	Linear Inequalities	
Percentage Change	Position-to-Term Rule	Coordinates and	Factors, Multiples and	Equations	Expanding Double Brackets	
Calculations with Money	Ratios	Midpoints	Primes	Transforming Shapes –	Fractions Review	
Index Laws	Scale Diagrams	Area and Units	Nets of 3D shapes	Translations and Reflections	Algebraic Fractions	
Solving Equations		Area and Circumference	Surface Area	Finding Unknown Angles	Fractions and Recurring	
		Standard Form and Ordinary Numbers	Volume	Drawing and Interpreting Statistical Diagrams	Decimals	
KEY ASSESSMENTS KEY ASSI		ESSMENTS KEY ASSESSMENTS		SSMENTS		
Post Knowledge Checks		Post Knowledge Checks		Post Knowledge Checks		
Term 1 Assessment		Term 2 Assessment		End of Year Assessment		
External Resources and Extended Studies			Enrichment and Development			
SPARX Maths - https://sparxmaths.com/			Literacy words displayed in the maths corridor to promote key vocabulary used throughout			
Our main homework platform			the curriculum. Comprehension tasks scheduled for each half term encompassing literacy,			
Mathsbot - https://mathsbot.com/			diversity and inclusion, careers and cross-curricular links			
Differentiated activities to help build key skills as well as worksheets for			Careers in maths information displayed in the maths corridor to spark curiosity			
consolidation of work.			Diversity and inclusion, and women in maths posters displayed in the corridor to highlight			
Corbett Maths – https://corbettmaths.com			and celebrate important figures in maths			
5-a-day questions which are good problem-solving starter questions for all abilities.			Use of SPARX Maths and calculators Key dates in the maths calendar: Pi Day (March 14th) and National Numeracy Day (May)			
abilities. Maths Genie - https://www.mathsgenie.co.uk/			key dates in the maths calen	dar: Pr Day (March 14") and Nat	ional numeracy Day (May)	
		nd model answers to GCSE				
A free revision site. It has past papers, mark schemes and model answers to GCSE exam questions						

Curriculum Overview

Subject: MATHEMATICS

Year Group: 9



Year 9 Mathematics builds upon the mathematical skills developed through Year 7 and Year 8. Pupils will cover five topic areas: number, algebra, statistics and probability, geometry and measure, and, ratio, proportion and rates of change. They will be presented in lessons with AO1 – using and applying standard techniques, AO2 – reasoning, interpreting and communicating mathematically, and AO3 – solving problems in mathematics and in other contexts. Pupils are given the opportunity to continue developing the use of scientific calculators efficiently and effectively. Skills acquired in Year 8 are interleaved throughout Year 9 to enhance long term retention.

TERM 1		TERM 2		TERM 3		
AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2	
Fractions and	Quadratic Equations	Rounding	Linear Graphs	Quadratic Graphs	Handing Data	
Percentages	Formulae	3D shapes	Compound Measures	Angles & Bearings	Statistical Diagrams	
Probability	Constructions	Pythagoras' Theorem	Motion Time Graphs	Transformations	Vectors	
Standard Form	Circles	Ratio & Proportion	iviotion rime draphs	Similarity & Congruence	Vectors	
Inequalities	0.2000			Similarity & congruence		
KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	
Fractions, Decimals and	Factorising Quadratic	Error Intervals	Plotting Graphs	Plotting and Interpreting	Scatter Graphs	
Percentage Review	Equations	Pythagoras' Theorem in	Finding Equations	Quadratic Graphs	Collecting and Presenting Data	
Percentage Change	Solving Quadratic	2D	Speed and Rates	Angle Facts	Grouped Data	
Theoretical Probability	Substitution	Ratio	Distance Time Graphs	Bearings	Column Vectors	
Experimental Probability	Solving Equations	Proportion worded	·	Transforming Shapes		
Calculations with Standard	Measures of Time	Problems		Similarity and Congruence		
Form	Measures of Mass, Length and			, ,		
Linear Inequalities	Capacity					
KEY ASSESSMENTS		KEY ASSE	ESSMENTS KEY ASSESSMENTS		ESSMENTS	
Post Knowledge Checks		Post Knowledge Checks		Post Knowledge Checks		
Term 1 Assessment		Term 2 Assessment	ssessment End		End of Year Assessment	
Externa	l Resources and Extended St	udies	Enrichment and Development			
SPARX Maths - https://sparxm	aths.com/		Literacy words displayed in the maths corridor to promote key vocabulary used throughout			
Our main homework platform			the curriculum. Comprehension tasks scheduled for each half term encompassing literacy,			
Mathsbot - https://mathsbot.com/			diversity and inclusion, careers and cross-curricular links			
Differentiated activities to help build key skills as well as worksheets for			Careers in maths information displayed in the maths corridor to spark curiosity and a			
consolidation of work.			dedicated lesson to careers in maths			
Corbett Maths - https://corbettmaths.com			Diversity and inclusion, and women in maths posters displayed in the corridor to highlight			
5-a-day questions which are good problem-solving starter questions for all			and celebrate important figures in maths			
abilities.			Use of SPARX Maths and calculators			
Maths Genie - https://www.mathsgenie.co.uk/			Key dates in the maths calendar: Pi Day (March 14th) and National Numeracy Day (May)			
A free revision site. It has past papers, mark schemes and model answers to GCSE						
exam questions						