Year 7 Maths Curriculum

This document provides an overview of the key topics your child will study in Year 7.

Term	Block	Unit	Topics	Sparx Code	R	A	G	Revision Tracker
Term 1	Number sense and calculations	Number sense	Using number lines	M763				
			Integer place value	M704				
			Decimal place value	M522				
			Ordering negative numbers	M527				
			Rounding integers	M111				
			Rounding decimals	M431				
		Baseline Assessment						
		Adding and subtracting	Adding integers	M928				
			Adding decimals	M429				
			Subtracting integers	M347				
			Subtracting decimals	M152				
		Multiplying	Multiplying and dividing by 10, 100 and 1000	M113				
			Multiplying using place value	M911				
			Using a written method to multiply integers	M187				
			Using a written method to multiply decimals	M803				
		Dividing	Dividing numbers into equal groups	M462				
			Using a written method to divide integers	M354				
			Dividing with remainder	M873				
			Dividing by integers to get a decimal answer	M262				
			Using a written method to divide by decimals	M491				
		Calculating with negative numbers	Adding and subtracting with negative numbers	M106				
			Multiplying and dividing with negative numbers	M288				
		Order of operations	Calculating with roots and powers	M135				
			Using the correct order of operations	M521				
			Using the commutative laws	M952				
			Using the associative laws	M409				
		Half Term						
	Expressions and equations	Expressions	Algebraic notation	M813				
			Algebraic terminology	M830				
			Simplifying expressions containing a single variable	M795				
			Simplifying expressions containing multiple variables	M531				
			Simplifying expressions containing non-linear terms	M949				
		Substitution	Substituting into expressions with one operation	M417				
			Substituting into expressions with multiple operations	M327				
			Substituting into algebraic formulae	M208				
			Substituting into real-life formulae	M979				
		Solving equations	Solving equations with one step	M707				
			Solving equations of the form ax+b=c	M634				
			Solving equations of the form x/a+b=c	M647				
	Measures	Time	Converting units of time	M515				
			Using clocks	M892				
			Calculating with time	M627				
			Using timetables	M963				
			Using calendars	M747				
		Measures	Estimating and measuring length, mass and capacity	M828				
			Converting units of length, mass and capacity	M774				
			Using appropriate units	M487				
	Term 1 Assessment							
	Christmas Holiday							

To prepare for their assessments, students are encouraged to:

1. Use the **R**ed, **A**mber, **G**reen columns to rate their confidence in each topic.

2. **Use the Sparx codes** to access helpful videos and practice questions, focusing on areas that need further revision. Once the Sparx task is completed, students should tick it off on their revision tracker.

Term	Block	Unit	Topics	Sparx Code	R	A	G	Revision Tracker
Term 2	2D Shapes	Line and shape properties	Line properties	M814				
			Shape properties	M276				
			Symmetry	M523				
	Perimeter and area	Perimeter	Finding perimeters using grids	M920				
			Finding the perimeter of rectangles and simple shapes	M635				
			Finding the perimeter of compound shapes	M690				
		Area	Finding areas using grids	M900				
			Finding the area of rectangles	M390				
			Finding the area of compound shapes	M269				
			Finding the area of triangles	M610				
			Finding the area of compound shapes containing	M996				
	Coordinates	Coordinates and shapes	Reading and plotting coordinates	M618				
			Solving shape problems involving coordinates	M230				
	ctors, multiples and prin	Factors and multiples	Finding the lowest common multiple	M227				
			Finding factors and using divisibility tests	M823				
			Finding the highest common factor	M698				
		Primes	Finding prime numbers	M322				
			Prime factor decomposition	M108				
	Half Term							
	Fractions	Writing and comparing fractions	Finding fractions of shapes	M158				
			Constructing fractions	M939				
			Finding equivalent fractions	M410				
			Simplifying fractions	M671				
			Ordering fractions	M335				
			Converting between mixed numbers and improper	M601				
		Adding and subtracting fractions	Adding and subtracting fractions	M835				
			Adding and subtracting mixed numbers	M931				
	Brackets	Single brackets	Using the distributive law	M637				
			Expanding single brackets	M237				
			Expanding single brackets and simplifying expressions	M792				
			Factorising into one bracket	M100				

Term 2 Assessment

Easter Holiday

Term	Block	Unit	Topics	Sparx Code	R	A	G	Revision Tracker
Term 3	Angles	Angles	Types of angles	M502				
			Estimating angles	M541				
			Measuring angles	M780				
			Drawing angles	M331				
		Finding unknown angles	Angles on a line and about a point	M818				
			Vertically opposite angles	M163				
			Angles in triangles	M351				
	Handling data and statistical diagrams	Averages and range	Calculating the range	M328				
			Calculating the median	M934				
			Finding the mode	M841				
			Calculating the mean	M940				
		Tables and charts	Interpreting frequency tables and two-way tables	M899				
			Drawing and interpreting tally charts	M597				
			Drawing and interpreting pictograms	M644				
			Drawing bar charts	M460				
			Interpreting bar charts	M738				
		Collecting and presenting data	Collecting and recording data using tables	M945				
			Finding averages from frequency tables	M127				
			Choosing suitable averages and solving problems	M440				
	Half Term							
	Proportion	Proportion word problems	Solving proportion problems	M478				
	End of Year Assessment							
	Fractions, decimals and percentages	Multiplying and dividing fractions	Reciprocals	M216				
			Multiplying fractions	M157				
			Dividing fractions	M110				
			Multiplying with mixed numbers	M197				
			Dividing with mixed numbers	M265				
		Fractions of amounts	Fractions of amounts without a calculator	M695				
			Fractions of amounts with a calculator	M684				
		Fractions, decimals and percentages	Converting between fractions and decimals	M958				
			Converting between fractions, decimals and	M264				
			Ordering fractions, decimals and percentages	M553				
			Writing numbers as percentages of other numbers	M235				
	Probability	Theoretical probability	Using probability phrases	M655				
			Writing probabilities as fractions	M941				
			Writing probabilities as fractions, decimals and	M938				
			Probabilities of mutually exclusive events	M755				
			Sample space diagrams	M718				
	Term 3 Assessment							