



Montgomery Academy



YEAR 8 SPARX CODES BY TERM

Instructions - Log in to Sparx maths, select independent learning down the left side, select key stage 3 from the drop down menu, select the level that you want to try questions at - it will tell you what the levels mean. Enter the codes below. Practise your maths skills

Search for topics:

Your curriculum:

Default level:

Enter topic name or code

Key Stage 3

Level 2

Year 8 Autumn Term	
Block 1 - Ratio and Scale	
Skill name	Sparx code
Writing and simplifying ratios	M885
Using equivalent ratios to find unknown amounts	M801
Sharing amounts in a given ratio	M525
Writing ratios in the form 1:n (H)	M543

Block 2 - Multiplicative Change	
Skill name	Sparx code
Solving proportion problems	M478
Value for money	M681
Finding unknown sides in similar shapes	M324
Currency conversion	U610
Drawing and interpreting scale diagrams	M112

Block 3 - Multiplying and Dividing Fractions	
Skill name	Sparx code
Converting between mixed numbers and improper fractions	M601
Multiplying fractions	M157
Reciprocals	M216
Dividing fractions	M110
Mixed problems: Calculating with fractions	M645
Multiplying with mixed numbers (H)	M197
Dividing with mixed numbers (H)	M265
Mixed problems: Calculating with mixed numbers (H)	M619

Block 4 - Working in the Cartesian Plane (linear graphs introduction)	
Skill name	Sparx code
Reading and plotting coordinates	M618
Solving shape problems involving coordinates	M230
Plotting horizontal and vertical lines	M797
Plotting straight line graphs	M932
Calculating midpoints (H)	M622
Mixed problems: Coordinates and midpoints (H)	M311

Block 5 - Representing Data	
Skill name	Sparx code
Plotting scatter graphs	M769
Interpreting scatter graphs	M596
Interpreting frequency tables and two-way tables	M899
Interpreting frequency tables with grouped data	M441

Block 6 - Sets & Probability	
Skill name	Sparx code
Using probability phrases	M655
Writing probabilities as fractions	M941
Writing probabilities as fractions, decimals and percentages	M938
Probabilities of mutually exclusive events	M755
Expected results from repeated experiments	M206
Sample space diagrams	M718
Calculating experimental probabilities	M332

Year 8 Spring Term	
Block 7 - Brackets, Equations and Inequalities	
Skill name	Sparx code
Expanding single brackets	M237
Expanding single brackets and simplifying expressions	M792
Expanding double brackets	M960
Solving equations of the form $ax+b=c$	M634
Solving linear equations involving brackets	M902
Solving single inequalities	M118
Solving equations with the unknown on both sides (H)	M554
Solving inequalities with the unknown on both sides (H)	M732

Block 8 - Sequences	
Skill Name	Sparx Code
Term-to-term rules for numerical sequences	M381
Term-to-term rules for sequences of patterns	M241
Position-to-term rules for arithmetic sequences (H)	M991
Position-to-term rules for sequences of patterns (H)	M866

Block 9 - Indices	
Skill Name	Sparx Code
Calculating with roots and powers	M135
Index rules with positive indices	M608
Index rules with negative indices	M150

Block 10 - Fractions & Percentages	
Skill Name	Sparx Code
Converting between fractions and decimals	M958
Converting between fractions, decimals and percentages	M264
Ordering fractions, decimals and percentages	M553
Finding percentages of amounts without a calculator	M437
Finding percentages of amounts with a calculator	M905
Percentage change without a calculator	M476
Percentage change with a calculator	M533
Finding original values in percentage calculations (H)	M528
Finding fractions of amounts without a calculator	M695
Finding fractions of amounts with a calculator	M684

Block 11 - Standard Form	
Skill Name	Sparx Code
Using standard form with positive indices	M719
Using standard form with negative indices (H)	M678
Multiplying and dividing numbers in standard form	U264
Adding and subtracting numbers in standard form	U290
Standard form with a calculator	U161

Block 12 - Number Sense	
Skill Name	Sparx Code
Rounding integers	M111
Rounding decimals	M431
Rounding integers using significant figures	M994
Rounding decimals using significant figures	M131
Estimating calculations	M878
Finding error intervals (H)	M730
Calculating with time	M627
Using timetables	M963
Using calendars	M747
Converting units of time	M515
Converting units of length	M772
Converting units of mass	M530
Converting units of capacity	M761
Converting units of length, mass and capacity	M774
Converting units of area (H)	M728
Converting units of volume (H)	M465

Year 8 Summer Term	
Block 13 - Angles in Parallel Lines & Polygons	
Skill name	Sparx code
Angles on a line and about a point	M818
Vertically opposite angles	M163
Angles in triangles	M351
Angles in quadrilaterals	M679
Combining angle facts	M319
Angles on parallel lines	M606
Using quadrilateral properties to find angles (H)	M393
Angles in polygons	M653
Constructing triangles	M565
Constructing bisectors of angles (H)	M232
Constructing perpendicular bisectors and lines (H)	M239

Block 14 - Area of Trapezium & Circles	
Skill Name	Sparx Code
Finding the area of rectangles	M390
Finding the perimeter of rectangles and simple shapes	M635
Finding the area of compound shapes	M289
Finding the perimeter of compound shapes	M690
Finding the area of triangles	M610
Finding the area of compound shapes containing triangles	M996
Finding the area of parallelograms	M291
Finding the area of trapeziums	M705
Mixed problems: Finding the area of rectangles, triangles	M303
Identifying parts of circles	M595
Finding the area of circles	M231
Finding the area of sectors	M430

Block 15 - Data Handling	
Skill Name	Sparx Code
Designing and using questionnaires	M493
Collecting and recording data using tables	M945
Presenting data and making conclusions	M450
Drawing and interpreting tally charts	M597
Drawing and interpreting pictograms	M644
Drawing bar charts	M460
Interpreting bar charts	M738
Drawing pie charts	M574
Interpreting pie charts	M165
Drawing line graphs	M140
Interpreting line graphs	M183
Calculating the range	M328

Block 16 - Measures of Location	
Skill Name	Sparx Code
Calculating the median	M934
Finding the mode	M841
Calculating the mean	M940
Finding averages from frequency tables (H)	M127
Finding averages from grouped data (H)	M287
Choosing suitable averages and solving problems	M440