

YEAR 9 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 1

Year 9 Autumn Term	
Block 1 - Area of Trapezia & 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	M269
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, parallelograms	M303
Identifying parts of circles	M595
Finding the area of circles	M231
Finding the area of sectors	M430

Block 2 - Straight Line Graphs	
Skill name	Sparx code
Plotting horizontal, vertical and diagonal lines	M797
Plotting straight line graphs	M932
Finding equations of straight line graphs	M544
Interpreting equations of straight line graphs	M888
Plotting real-life straight line graphs	M843
Interpreting real-life graphs	M771
Finding equations of real-life straight line graphs (H)	M205
Equations of parallel and perpendicular lines (H)	U898

Block 3 - Forming & Solving Equations & Inequalities	
Skill name	Sparx code
Solving equations with one step	M707
Solving equations of the form $Sax+b=c$	M634
Solving equations of the form $S\frac{a}{b}(x)+b=c$	M647
Mixed problems: solving equations of the form $Sax+b=c$ and $S\frac{a}{b}(x)+b=c$	M855
Solving equations of the form $S\frac{a}{b}(x+a)+b=c$	M401
Solving linear equations involving brackets	M902
Solving equations with the unknown in the denominator	M387
Mixed problems: solving equations with two or more steps	M509
Solving equations with the unknown on both sides	M554
Constructing and solving equations	M957
Substituting into expressions with one operation	M417
Substituting into expressions with multiple operations	M327
Substituting into algebraic formulae	M208
Solving single inequalities	M118
Solving inequalities with the unknown on both sides	M732
Changing the subjects of formulae	M184

Block 4 - Testing Conjectures	
Skill name	Sparx code
Finding factors and using divisibility tests	M823
Finding the lowest common multiple (LCM)	M227
Finding the highest common factor (HCF)	M698
Finding prime numbers	M322
Prime factor decomposition	M108
Finding the HCF and LCM using prime factor decomposition	M365
Expanding single brackets	M237
Expanding single brackets and simplifying expressions	M792
Expanding double brackets	M960
Expanding triple brackets (H)	U606

Block 5 - 3D Shapes	
Skill name	Sparx code
Shape properties	M276
Properties of 3D shapes	M767
Nets of 3D shapes	U761
Plans and elevations	U743
Mixed problems: Finding the area of rectangles, triangles, parallelograms	M303
Finding the surface area of cubes and cuboids	U929
Finding the surface area of prisms	U259
Finding the surface area of pyramids	U871
Finding the surface area of cylinders	U464
Finding the volume of cubes and cuboids	M765
Finding the volume of prisms	M722
Finding the volume of cylinders	M697
Finding the volume of pyramids (H)	U484
Finding the volume of cones (H)	U116
Finding the volume of spheres (H)	U617

Year 9 Spring Term	
Block 6 - Pythagoras Theorem	
Skill name	Sparx code
Calculating with roots and powers	M135
Using Pythagoras' theorem in 2D	M677
Using Pythagoras' theorem in 3D (H)	M147

Block 7 - Numbers	
Skill name	Sparx code
Simplifying surds (H)	U338
Ordering negative numbers	M527
Adding and subtracting with negative numbers	M106
Multiplying and dividing with negative numbers	M288
Finding the lowest common multiple (LCM)	M227
Finding the highest common factor (HCF)	M698
Adding and subtracting fractions	M835
Multiplying with mixed numbers	M197
Dividing fractions	M110
Dividing with mixed numbers	M285
Using standard form with positive indices	M719
Using standard form with negative indices	M678

Block 8 - Using Percentages	
Skill name	Sparx code
Converting between fractions and decimals	M958
Converting between fractions, decimals and percentages	M284
Percentage change without a calculator	M476
Percentage change with a calculator	M533
Finding original values in percentage calculations	M528
Finding percentages of amounts without a calculator	M437
Finding percentages of amounts with a calculator	M905

Block 9 - Maths & Money	
Skill name	Sparx code
Simple interest calculations	U533
Compound interest calculations	U332
Currency conversion	U610
Financial terminology and calculations	M901
Value for money	M681

Block 10 - Line Symmetry & Reflection	
Skill name	Sparx code
Symmetry	M523
Reflection	M290

Year 9 Summer Term	
Block 11 - Rotation & Translation	
Skill name	Sparx code
Rotation	M910
Translation	M139
Mixed transformations (H)	M881

Block 12 - Enlargement & Similarity	
Skill name	Sparx code
Enlargement	M178
Understanding similarity	M377
Finding unknown sides in similar shapes	M324

Block 13 - Solving Ratio & Proportion Problems	
Skill name	Sparx code
Solving proportion problems	M478
Value for money	M681
Constructing direct proportion equations	M472
Constructing inverse proportion equations (H)	M665
Graphs of direct and inverse proportion (H)	M448
Value for money	M681
Currency conversion	U610

Block 14 - Rates	
Skill name	Sparx code
Calculating speed from distance-time graphs	M247
Plotting distance-time graphs using speeds	M221
Calculating with speed	U151
Calculating with rates	U256
Calculating with density	U910
Calculating with pressure	U527

Block 15 - 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
Venn diagrams	M829
Probabilities from Venn diagrams	M419
Venn diagrams with set notation	M834
Tree diagrams for independent events (H)	M299
Tree diagrams for dependent events (H)	M572
Calculating experimental probabilities	M332

Block 16 - Constructions & Congruency	
Skill name	Sparx code
Using a pair of compasses	M196
Constructing triangles	M565
Constructing bisectors of angles	M232
Constructing perpendicular bisectors and lines	M239
Constructing loci	M253
Drawing and interpreting scale diagrams	M112
Congruent triangles	U866