

Year 7 Higher Scheme of Learning

Week	Topic	Notes	Forensic Learning Points
<b>Term 1</b>			
1	<b>Initial assessment</b>		
2	Mental and written methods	Column addition/subtraction. Short/long multiplication. Bus stop division. Extend to decimals.	Word problem involving multiplication, division and money
3	Indices and standard form (1)	Inc. unit fractions as indices and calculating in standard form.	Identify the coordinates of a point
4	Indices and standard form (2)	Inc. unit fractions as indices and calculating in standard form.	Calculate a square number
5	Negative Numbers	Four rules of negative numbers	Round to the nearest whole number Round a given number to the nearest thousand
6	Accuracy and order of operations	Rounding to a given number of decimal places/significant figures and estimation. BODMAS	
7	Calculating with fractions (1)	Finding fractions of amounts and recognising equivalent fractions. Cover all four calculation rules, inc. mixed and improper fractions.	Find a fraction from a ratio Word problem involving ratio
8	Calculating with fractions (2)	Finding fractions of amounts and recognising equivalent fractions. Cover all four calculation rules, inc. mixed and improper fractions.	
<b>HALF TERM</b>			
9	Algebraic techniques (1)	Expanding single and double brackets, substitution, solving equations (inc. unknown on both sides and simple quadratics)	Factorise an expression Write a number as a product of its prime factors
10	Algebraic techniques (2)	Expanding single and double brackets, substitution, solving equations (inc. unknown on both sides and simple quadratics)	
11	Algebraic techniques (3)	Expanding single and double brackets, substitution, solving equations (inc. unknown on both sides and simple quadratics)	Solve a linear equation
12	Rearranging formulae	Inc. where the subject is in more than one term	Write a fraction as a decimal Write a decimal as a fraction Work out a fraction of an amount
13	Inequalities	On a number line and solving	
14	Ratio and proportion (1)	Inc. both direct and inverse proportion using tables. Include ratio explicitly - Green Foundation CGP is good	Word problem involving fractions, percentages and money Write a fraction as a percentage Write a percentage as a fraction
15	Ratio and proportion (2)	Inc. both direct and inverse proportion using tables. Include ratio explicitly - Green Foundation CGP is good	
<b>CHRISTMAS</b>			
16	<b>Revision, exam, review</b>		Work out the perimeter of a compound shape
17	Percentages (1)	Percentages of amounts, percentage increase/decrease, interest calculations and reverse percentages, one number as a percentage of another	Geometrical problem involving triangles, circles and area Word problem involving mass and area
18	Percentages (2)	Percentages of amounts, percentage increase/decrease, interest calculations and reverse percentages, one number as a percentage of another	Word problem involving proportion and volume Find the volume of a cuboid
19	Probability	Cover basic probability and extend to tree diagrams	Word problem involving fractions and weight Word problem involving time Word problem involving multiplication, division and money
20	Transformations (1)	Cover all types, inc. enlargements with negative scale factors	
21	Transformations (2)	Cover all types, inc. enlargements with negative scale factors	Calculate a square number
<b>HALF TERM</b>			
22	Surface area and volume (1)	Cubes, cuboids, triangular prisms and composite solids	
23	Surface area and volume (2)	Cubes, cuboids, triangular prisms and composite solids	
24	Expanding and factorising	Review expanding double brackets, then go onto factorising. Extend to factorising when $a > 1$	Identify congruent triangles Work out the size of an angle that lies on a straight line Find the size of an exterior angle
25	Averages	Inc. frequency tables and grouped data.	
26	Sequences	Finding terms of a sequence and nth term. Go over exam style questions.	
27	Angles	Measuring angles and basic angle facts. Extend to angles in parallel lines	Find an expression for the nth term of an arithmetic sequence Continue an arithmetic sequence
28	<b>Revision, exam, review</b>		
<b>EASTER</b>			
29	Angles	Interior/exterior angles of polygons. Use the Exterior first method.	Problem involving the mean and money
30	Simultaneous equations (1)	Linear (inc. equations 3 & 4)	Reflect a shape in a mirror line
31	Simultaneous equations (2)	Linear (inc. equations 3 & 4)	Solve an inequality
32	Pythagoras	Finding both the hypotenuse and shorter sides. Inc. problem solving	
<b>HALF TERM</b>			
33	SOHCAHTOA (1)	Cover both missing side lengths and angles, extending to areas of scalene triangles	
34	SOHCAHTOA (2)	Cover both missing side lengths and angles, extending to areas of scalene triangles	Solve a linear equation
35	Bar charts	Drawing and interpreting bar charts (inc. comparative and dual bar charts)	Write down two things that are wrong with a given bar chart Interpret a bar chart
36	Sets and Venn diagrams		
37	<b>Revision, exam, review</b>		
38	<b>Enrichment Week</b>		
39	Review	Display work/problem solving activities	