

Year 7 Intermediate Scheme of Learning

	Week	Topic	Notes	Forensic Learning Points	
Term 1	1	Initial assessment			
	2	Mental and written methods (1)	Column addition/subtraction. Short/long multiplication. Bus stop division. Extend to decimals. Questions involving money.	Word problem involving multiplication, division and money	
	3	Mental and written methods (2)	Column addition/subtraction. Short/long multiplication. Bus stop division. Extend to decimals. Questions involving money.	Word problem involving fractions, percentages and money Word problem involving multiplication, division and money	
	4	Indices and standard form (1)	Inc. unit fractions as indices and calculating in standard form.	Simplify an expression involving indices	
	5	Indices and standard form (2)	Inc. unit fractions as indices and calculating in standard form.	Order numbers written in standard form	
	6	Negative Numbers	Four rules of negative numbers		
	7	Order of operations	BODMAS	Calculate a square number	
	HALF TERM				
	8	Accuracy	Rounding to a given number of decimal places/significant figures and estimation	Round to the nearest whole number Round a given number to the nearest thousand	
	9	Algebraic techniques (1)	Expanding single and double brackets, substitution, solving equations (inc. unknown on both sides and simple quadratics)	Expand an expression	
	10	Revision, exam, review			
	11	Algebraic techniques (2)	Expanding single and double brackets, substitution, solving equations (inc. unknown on both sides and simple quadratics)	Substitute into an equation and solve	
	12	Algebraic techniques (3)	Expanding single and double brackets, substitution, solving equations (inc. unknown on both sides and simple quadratics)	Solve a linear equation	
	13	Rearranging formulae	Inc. where the subject is in more than one term	Change the subject of an equation	
14	Inequalities	On a number line and solving	Solve an inequality		
CHRISTMAS					
Term 2	15	Calculating with fractions (1)	Finding fractions of amounts and recognising equivalent fractions. Cover all four calculation rules, inc. mixed and improper fractions.	Write a fraction as a decimal Write a decimal as a fraction Work out a fraction of an amount	
	16	Calculating with fractions (2)	Finding fractions of amounts and recognising equivalent fractions. Cover all four calculation rules, inc. mixed and improper fractions.	Multiply two mixed numbers	
	17	Percentages (1)	Percentages of amounts, percentage increase/decrease, interest calculations and reverse percentages, one number as a percentage of another	Word problem involving fractions, percentages and money Word problem involving multiplication, division and money	
	18	Percentages (2)	Percentages of amounts, percentage increase/decrease, interest calculations and reverse percentages, one number as a percentage of another	Word problem involving fractions, percentages and money Write a fraction as a percentage Write a percentage as a fraction	
	19	Probability	Cover basic probability and extend to tree diagrams	Complete a probability tree diagram	
	20	Transformations (1)	Cover all types, inc. enlargements with negative scale factors	Reflect a shape in a mirror line	
	21	Transformations (2)	Cover all types, inc. enlargements with negative scale factors		
	HALF TERM				
	22	Surface area and volume (1)	Cubes, cuboids, triangular prisms and composite solids	Word problem involving proportion and volume Find the volume of a cuboid	
	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 $a > 1$	Factorise an expression	
	25	Revision, exam, review			
	26	Averages	Inc. frequency tables and grouped data.	Problem involving the mean and money	
	27	Sequences	Finding terms of a sequence and nth term. Go over exam style questions.	Find an expression for the nth term of an arithmetic sequence Use the expression for the nth term to find a particular term	
28	Angles	Measuring angles and basic angle facts. Extend to angles in parallel lines	Identify congruent triangles Work out the size of an angle that lies on a straight line Find the size of an exterior angle		
EASTER					
Term 3	29	Angles	Interior/exterior angles of polygons. Use the Exterior first method and $180(n-2)$	Work out the number of sides of a polygon	
	30	Ratio and proportion (1)	Inc. both direct and inverse proportion using tables. Include ratio explicitly - Green Foundation CGP is good	Write a fraction as a decimal Write a decimal as a fraction Work out a fraction of an amount	
	31	Ratio and proportion (2)	Inc. both direct and inverse proportion using tables. Include ratio explicitly - Green Foundation CGP is good	Find a fraction from a ratio Word problem involving ratio	
	32	Pythagoras	Finding both the hypotenuse and shorter sides. Inc. problem solving		
	HALF TERM				
	33	Revision, exam, review			
	34	SOHCAHTOA (1)	Cover both missing side lengths and angles, extending to areas of scalene triangles	Trigonometry question involving a right angled triangle	
	35	SOHCAHTOA (2)	Cover both missing side lengths and angles, extending to areas of scalene triangles	Trigonometry question involving a right angled triangle	
	36	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	
	37	Sets and Venn diagrams		Complete a Venn diagram	
	Enrichment Week				
38					
39	Review	Display work/problem solving activities			