	Topic	Content
	1 Calculations 1	To understand place value, including ordering integers (+/-)
	(Number)	To round numbers To add and subtract decimals & integers (+/-)
	(Nullibel)	To add and subtract decimals & integers (+/-) To multiply and divide decimals & integers (+/-)
		To solve problems with four operations
	2 Expressions	To know what is meant by expression, equation, formulae and term To form expressions
	(Algebra)	To substitute into expressions and formulae
	,	To simplify expressions and collect like terms
		To know and use the laws of indices To expand a single bracket and simplify
		To expand a single bracket and simplify To factorise a single bracket
	3 Angles and polygons	To know and use angle facts
		To know and use angles on parallel lines To know properties of triangles and quadrilaterals to find missing angles
	(Geometry)	To understand congruence and similarity
		To find polygon angles
Year 9	4 Handling data 1	To know methods of sampling including simple random sample To organising data in to frequency tables and stem and leaf diagrams
×	(Statistics)	To organising data in to frequency tables and stem and lear diagrams To represent data in bar charts and pictograms and interpret
	,	To representing data in pie charts and interpret
	5 Fractions, decimals and percentages	To find all averages and spread from a list and a frequency table
	5 Fractions, decimals and percentages	To convert between decimals, fractions and % To find fractions and percentages of amounts
	(Number)	To do four calculations with fractions
	6 Formulae and functions	To substitute into formulae
	(Algebra)	To use standard formulae and re-arrange To recognise equations, identities and functions
	(, "gobia)	To use function machines
		To expand and simplify double brackets
	7 Working in 2D	To factorise quadratics To measure and draw lengths and angles
	-	To use bearings
	(Geometry)	To find area of a 2D shape including compound
		To translate, rotate and reflect shapes To describe transformations
		To enlarge shapes
	8 Probability	To calculate probability from experiments
	(Probability)	To calculate expected outcomes To calculate theoretical probability
	(· · · · · · · · · · · · · · · · · · ·	To identify mutually exclusive events
	9 Measures and accuracy	To round to significant figures
	(Number)	To estimate and find error intervals To use calculator methods
	(To use correct measures
		To convert between metric units
	10 Equations and inequalities	To use compound measures To solve one and two step equations
		To solve linear equations with brackets and unknown on both sides
	/Al	To solve linear equations with fractions
	(Algebra)	To solve quadratic equations by factorisation To solve simultaneous equations algebraically (and graphically)
		To solve inequalities and represent on a number line
	12 Ratio and proportion	To represent a proportion
	(Ratio and proportion)	To simplify and share in a ratio To use ratio and scales
Year 10	, , , , , , , , , , , , , , , , , , , ,	To find % of an amount and % increase/decrease
		To find percentage change
	13 Factors, powers and roots	To find reverse percentages To find factors and multiples
	·	To do prime factor decomposition
	(Number)	To find HCF and LCM To use powers and roots
	14 Graphs 1	To use powers and roots To draw straight-line graphs from a table of values and using y=mx+c
	·	To find and use the equation of a straight line
	(Algebra)	To find the gradient of a line To identify parallel lines
		To identify parallel lines To draw and interpret kinematic graphs
	15 Working in 3D	To know the properties of 3D shapes and their nets
	(Coomatri)	To draw and use plans and elevations To find the volume of a prism
	(Geometry)	To find the volume of a prism To find volume and surface area
	16 Handling data 2	To draw and interpret frequency diagrams
	(Ctatiotics)	To find averages and spread from frequency tables including grouped
	(Statistics)	To draw and interpret scatter graphs and identify correlation To draw and interpret time series graphs
	17 Calculations 2	To calculate with roots and indices
	(Number)	To do exact calculations To use standard form
	(Number) 18 Graphs 2	To use standard form To plot and identify properties of quadratic functions
	,	To sketch cubic and reciprocal functions
	(Algebra)	To draw and interpret real-life graphs
	19 Pythagoras and trigonometry	To use Pythagoras' theorem To use SOHCAHTOA for missing sides and angles
	(Geometry)	To use vectors in column form and a diagram
	44 00000	To recognise parallel vectors
	11 Circles and constructions	To know parts of a circle and find circumference and area To find area of a sector and length of an arc
	(Geometry)	To perform standard constructions using compasses
		To solve loci using constructions
	20 Combined events	To use sets To draw and use possibility spaces
	(Probability)	To draw and use possibility spaces To draw and use tree diagrams with and without replacement
	21 Sequences	To describe and use sequence rules
Year 11	(Algahan)	To find the nth term of a linear sequences
	(Algebra) 22 Units and proportionality	To know special sequences To use compound measures
	, ,	To use direct proportion
	(Ratio and proportion)	To use inverse proportion
		To solve growth and decay problems including simple and compound interest and depreciation
-	Year 11 Revision SOL	