

KS3 progression of SOW
Sets 7N1, 7S1, 8N1, 8S1, 9Ma1, 9Ma2

	Year 7	Year 8	Year 9
Number	<p>Integers</p> <ul style="list-style-type: none"> ➤ 4 operations; BIDMAS ➤ Squares, cubes and roots ➤ Factors and multiples <p>Fractions</p> <ul style="list-style-type: none"> ➤ Comparing ➤ 4 operations <p>Decimals</p> <ul style="list-style-type: none"> ➤ 4 operations ➤ Division of a decimal by a decimal ➤ Mental strategies <p>Percentages</p> <ul style="list-style-type: none"> ➤ % of a quantity ➤ Increase and decrease by a % 	<p>Factors and Multiples</p> <ul style="list-style-type: none"> ➤ Prime numbers and factors ➤ HCF and LCM ➤ Squares, cubes and roots and prime factorisation <p>Rounding</p> <ul style="list-style-type: none"> ➤ Decimal places ➤ Significant figures and estimating <p>Percentages</p> <ul style="list-style-type: none"> ➤ FDP ➤ % of an amount ➤ Reverse % ➤ % increase and decrease 	<p>Indices</p> <ul style="list-style-type: none"> ➤ Positive ➤ Zero and negative <p>Standard form</p> <ul style="list-style-type: none"> ➤ Converting ➤ Calculating
Algebra	<p>Expressions</p> <ul style="list-style-type: none"> ➤ Substitution ➤ Writing expressions ➤ Collecting like terms <p>Equations</p> <ul style="list-style-type: none"> ➤ Writing and solving equations in one variable 	<p>Expressions and formulae</p> <ul style="list-style-type: none"> ➤ Writing and evaluating formulae ➤ Expanding single brackets and simplifying <p>Equations and inequalities</p> <ul style="list-style-type: none"> ➤ Solving including brackets ➤ Forming linear equations ➤ Representing and solving inequalities <p>Proof</p> <p>Coordinates</p> <ul style="list-style-type: none"> ➤ Plotting ➤ Straight line graphs and gradient <p>Sequences</p> <ul style="list-style-type: none"> ➤ Number patterns ➤ General term 	<p>Formulae and expressions</p> <ul style="list-style-type: none"> ➤ Changing the subject ➤ Factorising linear expressions <p>Simultaneous equations - linear</p> <ul style="list-style-type: none"> ➤ Graphically ➤ Substitution ➤ Elimination <p>Quadratic expressions</p> <ul style="list-style-type: none"> ➤ Expanding double brackets <p>Graphs</p> <ul style="list-style-type: none"> ➤ Linear relationships between two variables ➤ Rates of change ➤ Quadratic graphs ➤ Exponential, reciprocal graphs

Ratio and proportion		Ratio <ul style="list-style-type: none"> ➤ Simplifying ➤ Dividing into a ratio ➤ Scale plans and maps 1:r Rate <ul style="list-style-type: none"> ➤ Speed ➤ Value for money ➤ Exchange rate 	Proportion <ul style="list-style-type: none"> ➤ Direct proportion ➤ Inverse proportion
Shape and measure	Angles <ul style="list-style-type: none"> ➤ Properties ➤ Parallel lines ➤ Triangles Perimeter and area <ul style="list-style-type: none"> ➤ Triangles ➤ Circles ➤ Compound shapes ➤ Nets, surface area and volume of cuboids Transformations, symmetry, congruence <ul style="list-style-type: none"> ➤ Translation, reflection, rotation ➤ Rotational and reflective symmetry ➤ Recognise and explain congruence 	Angles <ul style="list-style-type: none"> ➤ Quadrilaterals ➤ Polygons Perimeter and area <ul style="list-style-type: none"> ➤ Parallelogram ➤ Trapezia ➤ Compound shapes Volume and surface area <ul style="list-style-type: none"> ➤ Plans and elevations ➤ Prisms ➤ Cylinders ➤ Composite solids 	Angles <ul style="list-style-type: none"> ➤ Trigonometry - SOHCAHTOA ➤ Bearings Surface Area <ul style="list-style-type: none"> ➤ Pyramids ➤ Cones Pythagoras' Theorem Transformations, symmetry, congruence <ul style="list-style-type: none"> ➤ Enlargement ➤ Congruent triangles ➤ Similarity and Scale drawing Construction <ul style="list-style-type: none"> ➤ Bisectors ➤ Triangles ➤ Loci
Probability and statistics	Data <ul style="list-style-type: none"> ➤ Collecting and organising ➤ Representing: bar charts, pictograms 	Graphs <ul style="list-style-type: none"> ➤ Line graphs ➤ Pie charts ➤ Scatter graphs 	Data analysis <ul style="list-style-type: none"> ➤ Averages and range frequency data ➤ Averages and range grouped data Probability <ul style="list-style-type: none"> ➤ Single events ➤ Combined events ➤ Mutually exclusive events Venn diagrams <ul style="list-style-type: none"> ➤ Set notation ➤ Union and intersection ➤ Probability