Subject Yearly Overview 2023-24

Subject: Maths Yr 8	TOPIC	COMPONENT	*Notes:* *Why are you delivering this topic at this time of year?*
Autumn 1	Place value Addition and subtraction	Read Roman numerals up to 1000 (M) and recognise years written in Roman Numerals Interpret negative numbers Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000. Count up and back in powers of 10 Order positive and negative integers,	We start with this topic as pupils need to familiarise themselves with numbers/ the number system/ the value of digits. This helps students to build on their previous learning.
Autumn 2	Addition and subtraction Multiplication and division Stat	Order positive and negative integers, Adding and subtracting /Multiply & dividing positive & negative integers Introduction to Maths symbols e.g =, ≠, <, >, ≤, ≥ Understand the value of the digits in whole numbers Round numbers to the nearest whole number, 10, 100 or 1000	The pupils begin to use this knowledge to add/subtract. They build on what they have learned last half term to use the value of digits to add and subtract. They then embed this by solving problems using these 2 operations
Spring 1	Multiplication and division Fractions Ratio Fractions	Multiply numbers up to 4 digits by a one or two-digit number using a formal written method, Divide numbers up to 4 digits by a one-digit number using the formal written method. Recognise and use square numbers Recognise and use cube numbers	This half term the pupils will look at the next 2 operations – multiplying and dividing. They will use previous knowledge to use formal written methods.

Spring 2	Fractions Time Percentages, decimals and algebra Statistics	Simplify and manipulate algebraic expressions: Collecting like terms Simplifying expressions involving sums, products and powers, including the laws of indices .	As the seasons change we also look at time and how the clock can be split in two quarters, which then leads nicely on fractions after fractions.. From fractions we can then look at decimals. I added statistics because of the group changed I thought the change would be easier if we did a familiar topic. Statistics is a nice unit for the class to get to find out different information and present it in a number of ways.
Summer 1	Property of shape Position and direction Property of shapes	2D shapes Identify properties of 2D shapes Find surface area with formulae (rectangle & right angled triangles) 3-D shapes Identify properties of 3D shapes (faces, edges, vertices) Find volume of a cuboid and other *simple* prisms (use formulae)	I find that pupils find this topic easier to grasp as there are many physical resources e.g 3D shapes nets that pupils can see, hold and relate to learning.
Summer 2	Position and direction Converting units Measure and volume Position and direction	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Identify angles at a point and one whole turn. Identify angles at a point on a straight line and 1/2 a turn. Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. Identify, describe and represent the position of a shape following a reflection or translation.	This is a nice unit to do some outside learning-measuring perimeters/area.