Subject Yearly Overview 2022-2023				
Subject: Maths Yr 7	ΤΟΡΙϹ	СОМ	PONENT	Notes: Why are you delivering this topic at this time of year?
Autumn 1	Place value Addition and subtraction	 Year 3 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 	 Year 5 Add and subtract number with at least 5 digits using mental and written methods; Round numbers to the nearest 10, 100, 1000, 10 000; use inverse operations to check answers to addition and subtraction calculations; Mentally round numbers to check answers to calculations and determine, in the context of a problem, levels of accuracy; Choose a sensible way of calculating when solving a problem; Solve one-step and two-step word problems; 	numbers/ the number system/ the value of digits. 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.

			 Independently choose appropriate methods for mental calculation; Practise mental calculation with increasingly large numbers 	
Autumn 2	Addition and subtraction Multiplication and division	Year 3 Recognise multiples of four Recall multiplication and division facts for the 3x, 4x and 8x tables. Multiply multiples of 10 using known facts up to 12x Pounds and pence Ordering money 9 times table and division facts Multiply and divide by 7 7 times table and division facts	 Year 5 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 1 Fractions	Year 3 Halves and quarters Perimeter on a grid Formula to perimeter. Measure the distances. Area on a grid Area of a rectangle Area of rectilinear shapes	 Year 5 What is a fraction? Equivalent fractions (1 Equivalent fractions greater than 1 Improper fractions to mixed number. Mixed numbers to improper fractions Number sequences Compare and order fractions less than 1. Compare and order fractions greater than 1. Add and subtract fractions Decimals up to 2 d.p. Decimals as fractions (2) Understand thousandths Thousandths as decimals Rounding decimals 	This is a nice unit to do some outside learning- measuring perimeters/area. Easter approaches and therefore we can look at fractions with regards to eggs, ingredients for Easter baking
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Spring 2	Time Percentages, decimals and algebra Perimeter and area	Year 3 Simplify and manipulate algebraic expressions: Collecting like terms Simplifying expressions involving sums, products and powers, including the laws of indices	 Year 5 ◆ Order and compare decimals ◆ Understand percentages Percentages as fractions and decimals Equivalent F.D.P ◆ Perimeter of composite rectilinear shapes by adding the length of the sides. ◆ Draw different composite rectilinear shapes to a given perimeter. ◆ use reasoning to answer questions about the perimeter of rectilinear shapes. 	As the seasons change we also look at time and how the clock can be split in two quarters, which then leads nicely on from fractions. fractions we can then look at decimals.
Summer 1	Decimals Property of shape Position and direction Property of shapes Stats	Year 32D shapesIdentify properties of 2D shapesFind PerimeterFind surface area with formulae(rectangle & right angledtriangles)Find the surface area ofcompound/composite shapes3-D shapesIdentify properties of 3D shapes(faces, edges, vertices)	 Year 5 Identify angles Compare and order angles Measure angles in degrees Measuring with a protractor (1) Measuring with a protractor (2) 	I find that pupils find this topic easier to grasp and there are many physical resources e.g 3D shapes that pupils can see, hold and relate to learning. This is also the first time that I have taught this cohort and the topic allows me to build relationship and access learning styles etc.

		Find volume of a cuboid and other <i>simple</i> prisms (use formulae)	 Drawing lines and angles accurately Calculating angles on a straight line Calculating angles around a point Triangles Quadrilaterals Calculating lengths and angles in shapes Regular and irregular polygons Reasoning about 3-D shape.
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.	Year 5This is a nice unit to do some outside learning- measuring perimeters/area.Image: Describe positionImage: Describe position Position in the first quadrantImage: Describe position Position in the first quadrantFinding lines of symmetry.Image: Describe position quadrantFinding lines of symmetry.Image: Describe position position in the first quadrantFinding lines of symmetry.Image: Describe position Translation with coordinatesFinding lines of symmetry.Image: Describe position Complete a symmetric figure Image: ReflectionFinding lines of symmetry.

✤ Reflection with
coordinates