8V Class - **Venture Curriculum** -
3 hours per work.
Flexibility with topic delivery.

7-9 Ks3 Build on prior knowledge.

Develop fluency
Reason mathematically
Solve problems

Year	2022 – 2023 Autumn 1 Unit 1	2022 – 2023 Autumn 2 Unit 2	2022 – 2023 Spring 1 Unit 3	2022 – 2023 Spring 2 Unit 4	2022 – 2023 Summer 1 Unit 5	2022 – 2023 Summer 2 Unit 6
	Topic: **Calculation/addition and subtraction. Fractions and decimals and percentages. Measure and accuracy-Time** **Suggested Key Questions:** What do you already know about… Do you know place value to 6 digits? Start and use aspects of Bidmas in multi stage calculations? Students develop a fluency to recognise, find and name a half as one of two equal	**Topic:** **Calculations/ multiplication and division. Measure and accuracy-Money Working in 2d/3d.** **Suggested Key Questions:** What do you already know about… Can you measure angles? Can you use a protractor? Can you Develop fluency Reason mathematically Solve problems involving **Key Skills and Knowledge:**	**Topic:** **Algebra Data and statistics Measure and accuracy-weight/length/capacity/volume.** **Suggested Key Questions:** What do you already know about… Can you measure in mm/cm? How would you work out area? Can you use letters for values? Can you collect like terms? Use a formula? Can you Develop fluency	**Topic:** **Number /addition and subtraction Ratio/Probability/Sequence** **Suggested Key Questions:** What do you already know about… Can you fluently use method addition and subtraction? Can you compare two ratio amounts? Can you continue a sequence? Can you use words to describe different probabilities? Can you Develop fluency Reason mathematically	**Topic:** **Whole number calculation/ multiplication and division. Fractions and decimals and percentages. Measure and accuracy.** **Suggested Key Questions:** What do you already know about… **Can you round to nearest 10/100/1000.** Can you multiple and divide by 10/100 and 1000? Can you use a scientific calculator? Can you add and subtract fractions?	**Topic:** **Angles and polygons Working in 2d/3d Measure and accuracy. Algebra** **Suggested Key Questions:** What do you already know about… Can you work out the properties of a triangle? Is there fluency in collecting like terms? Can you reflect a shape on a mirror line? Can you rotate a shape about a point? **Key Skills and Knowledge:**

parts of an object, shape or quantity? **Key Skills and Knowledge:** Can you Develop fluency Reason mathematically Solve problems involving place value read and write numbers to at least 100 in numerals and in words Can you Develop fluency Reason mathematically Solve problems involving percentages/ fraction and decimals. recognise, find, name and write fractions 1 / 3 , 1 / 4 , 2 / 4 and 3 / 4 of a length, shape, set of objects or quantity .	multiplication and division. recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Start to begin to identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] compare and sort common 2-D and 3-D shapes and everyday objects. .	Reason mathematically Solve problems involving algebra. Can you Develop fluency Reason mathematically Solve problems involving data and statistics. **Key Skills and Knowledge:** . Collect like terms. Interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer questions about totalling and comparing categorical data.	Solve problems involving algebra. Can you Develop fluency Reason mathematically Solve problems involving number. Can you Develop fluency Reason mathematically Solve problems involving algebra. Can you Develop fluency Reason mathematically Solve problems involving ratios, probability and sequence. **Key Skills and Knowledge:** show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction Use ratio notation(reduction in simplest form). Write a ratio in its simplest form and	Can you switch between fractions/decimals and percentages? Work out the perimeter? Work out the area? -rectangle. -triangle -parallelogram. **Key Skills and Knowledge:** write simple fractions e.g. 1 / 2 of 6 = 3 and recognise the equivalence of 2 / 4 and 1 / 2 . multiplication and division. recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables, including recognising odd and even numbers	Develop greater fluency in collecting like terms. Understand obtuse, reflex angles. Know about interior and exterior angles. Develop fleuncy to identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] compare and sort common 2-D and 3-D shapes and everyday objects.

				divide a quantity in a given ratio. Find the next term in the sequence.		
Links to Gatsby Benchmarks:	**Benchmark 2** Labour market to information. What are the current trends in the jobs market that involve maths skils athat students are learning. **Benchmark 4.** STEM opportunities- linking career opportunities and what aspects of mathematics they are learning.	**Benchmark 2** Labour market to information. What are the current trends in the jobs market that involve maths skils athat students are learning. **Benchmark 4.** STEM opportunities- linking career opportunities and what aspects of mathematics they are learning.	**Benchmark 2** Labour market to information. What are the current trends in the jobs market that involve maths skils athat students are learning. **Benchmark 4.** STEM opportunities- linking career opportunities and what aspects of mathematics they are learning.	**Benchmark 2** Labour market to information. What are the current trends in the jobs market that involve maths skils athat students are learning. **Benchmark 4.** STEM opportunities- linking career opportunities and what aspects of mathematics they are learning.	**Benchmark 2** Labour market to information. What are the current trends in the jobs market that involve maths skils athat students are learning. **Benchmark 4.** STEM opportunities- linking career opportunities and what aspects of mathematics they are learning.	**Benchmark 2** Labour market to information. What are the current trends in the jobs market that involve maths skils athat students are learning. **Benchmark 4.** STEM opportunities- linking career opportunities and what aspects of mathematics they are learning.