10V Class **- Venture Curriculum** -
3 hours per work.
Flexibility with topic delivery.

Build on prior knowledge/revisit key skills constantly.

Develop fluency
Reason mathematically
Solve problems (worded problems highlighting key words).

Year	2022 – 2023 Autumn 1	2022 – 2023 Autumn 2	2022 – 2023 Spring 1	2022 – 2023 Spring 2	2022 – 2023 Summer 1	2022 – 2023 Summer 2
	Topic: **Calculation/addition and subtraction. Fractions and decimals and percentages.** Measure and accuracy-Time **Suggested Key Questions:** Can you solve worded problems involving addition an subtraction? compare and order unit fractions, and fractions with the same denominators? **Key Skills and Knowledge:**	**Topic:** **Calculations/ multiplication and division. Measure and accuracy-Money** Working in 2d/3d. **Suggested Key Questions:** What do you already know about… Can you Can you measure angles? Can you use a protractor? Can you Develop fluency Reason mathematically Solve problems involving multiplication and division.	**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:** **Maths in the real world (money and time).** 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?

Can you Develop fluency Reason mathematically Solve problems involving place value Can you Develop fluency Reason mathematically Solve problems involving the four calculations Can you Develop fluency Reason mathematically Solve problems involving percentages/ fraction and decimals. . Can you Develop fluency Reason mathematically Solve problems involving time measure, compare, add and subtract. time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock,	Can you Develop fluency Reason mathematically Solve problems involving money. Can you Develop fluency Reason mathematically Solve problems involving 2d/3d shapes **<u>Key Skills and Knowledge:</u>** count from 0 in multiples of 4, 8, 50 and 100 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them recognise angles as a property of shape or a description of a turn identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle identify	Reason mathematically Solve problems involving algebra. Can you Develop fluency Reason mathematically Solve problems involving data and statistics. **Key Skills and Knowledge:** Substitution and solve simple one-step equations interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions .	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:**	Can you switch between fractions/decimals and percentages? Work out the perimeter? Work out the area? -rectangle. -triangle -parallelogram. **Key Skills and Knowledge:**	**Key Skills and Knowledge:** Draw and measure line segments and angles in geometric figures, including interpreting scale drawings. Use and interpret algebraic notation.

		horizontal and vertical lines and pairs of perpendicular and parallel lines.				
Links to Gatsby Benchmarks:	**Benchmark 2** Labour market to information. What are the current trends in the jobs market that involve maths skils that students are learning and could apply to the current jobs market. **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 that students are learning apply to the current jobs market. **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 that students are learning apply to the current jobs market. **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 that students are learning apply to the current jobs market. **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 that students are learning apply to the current jobs market. **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 that students are learning apply to the current jobs market. **Benchmark 4.** STEM opportunities-linking career opportunities and what aspects of mathematics they are learning.