10E Class - **Explorer Curriculum** -

Promote Facts (keywords)

Rehearsal of key content.

Careful Sequenced topics/Challenge with worded problems.

Year	2023 – 2024 Autumn 1	2023 – 2024 Autumn 2	2023 – 2024 Spring 1	2023 – 2024 Spring 2	2023 – 2024 Summer 1	2023 – 2024 Summer 2
	Topic: **Place value addition and subtraction** **Fractions, Percentages & Decimals:** **Units & Measures: (time)** **Suggested Key Questions:** **Promote basic facts-not overload** Rehearse key words Can you start to solve worded problems and start to find some key facts? With some support can you solve basic calculations? **Skills and Knowledge:** **Whole Numbers & Calculations:** Begin to Write, order and compare whole numbers up to 100. Know the value	**Topic:** **Place value addition and subtraction** **Units & Measures: (Money)** **Suggested Key Questions:** **Promote basic facts-not overload** Rehearse key words What is inverse (division and multiplication). What change would you get from a given amount? **Key Skills and Knowledge:** **Multiples: Estimation & Approximation:** Know and use multiplication and division as inverse operations.	**Topic:** **Place value addition and subtraction** **Multiples -Multiplication and division.** **Shapes and solids** **Suggested Key Questions:** **Promote basic facts-not overload** Rehearse key words Can you confidently add up to 100? **Key Skills and Knowledge:** **Whole Numbers & Calculations:** Greater fluency with adding whole numbers up to 100.	**Topic:** **Fractions, Percentages & Decimals:** **Data (statistics)** **Suggested Key Questions:** **Promote basic facts-not overload** Rehearse key words What is ratio and how does it work? Demonstrate your understanding of ¼, 2/4, ¾ etc. **Key Skills and Knowledge:** **N2 Fractions, Percentages & Decimals:** Calculate the fractions ¼, 2/4 and ¾ of a length, shape, set of objects or	**Topic:** **Multiples-Multiplication and division.** **Units & Measures: (Money)** **Suggested Key Questions:** **Promote basic facts-not overload** Rehearse key words Can you solve basic multiples problems involving missing numbers? What occurs when youi divide by a specific amount? **Key Skills and Knowledge:** **Multiples:** Solve problems, including missing number problems, involving multiplication and division	**Topic:** **Place value addition and subtraction** **Units & Measures: (time)** **Suggested Key Questions:** **Promote basic facts-not overload** Rehearse key words What happens with borrowing from a different place value? Can you demonstrate borrowing independently. **Key Skills and Knowledge:** **Whole Numbers & Calculations:** Fluently and indecently Subtract a single-digit number from an initial value no greater than 100.

of each digit in a two-digit number Start to develop addition and recall basic number facts. Understand vocabulary associated with numerical calculations such as multiply, times, half, divide, ×, ÷. **Fractions, Percentages & Decimals** Recognise and name the fractions 1/3, ¼, 2/4 and ¾ when related to length, shape, set of objects or quantity. Recognise and name the fractions 1/3, ¼, 2/4 and ¾ when related to length, shape, set of objects or quantity. **Units & Measures: (time)** Measure and begin to record the following: time (hours, minutes, seconds) Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]. Recognise and use language relating to dates, including days of the week, weeks, months and years tell the time to the hour and half past the hour and draw the hands on a clock face to show these times	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables **Units & Measures:** Start to work out change from a given amount **Shapes & Solids:** Can recognise by name 3D shapes - cube, cuboid, sphere, pyramid, cylinder, cone, prism. Sort mixed 2D and 3D shapes according to more than one criteria e.g. size, number of sides/edges. identify the 2D and 3D shapes needed to build a model e.g. rocket, robot. Recognise the 2D representations of 3D objects Use the language of distance to describe 'close', 'near' and 'far' Draw/identify an approximate mirror image of a simple shape/picture	. **Lists & Outcomes:** interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. Solve simple inverse proportion problems using systematic analysis e.g. if speed doubles then the time taken will halve. . **Units & Measures: (Height/capacity/weight)** Measure and begin to record the following: lengths and heights mass/weight capacity and volume	quantity. Write fraction symbols from verbal instruction. Demonstrate that the same quantity can be split into equal groups in different ways. **Proportion** Understand Ratio	**Estimation & Approximation:** **Units & Measures:** Draw acute angles. Draw obtuse angles. Can identify lines of symmetry.	(regrouping and non-regrouping) **Shapes & Solids:** Name 3D shapes - cube, cuboid, sphere, pyramid, cylinder, cone, prism. Describe an observed movement as a whole, a half, a quarter or a three-quarter turn in practical activities. Describe the types of turn I need to make to face a requested object/person
Links to Gatsby	**Benchmark 4**	**Benchmark 2**	**Benchmark 2**	**Benchmark 2**	**Benchmark 4 Links to**	**Benchmark 2**

Benchmarks:	Links to STEM opportunities and careers involve Mathematics	Share key employment statistics of current job market. How is the current market useful for mathematic skills?	Share key employment statistics of current job market. How is the current market useful for mathematic skills?	Share key employment statistics of current job market. How is the current market useful for mathematic skills?	STEM opportunities and careers involve Mathematics	Share key employment statistics of current job market. How is the current market useful for mathematic skills?