

Curriculum intent (overview) – To deepen students' skills and knowledge through a broad and balanced curriculum which prepares students for adulthood.

11E Class - Explorer Curriculum -

Promote Facts (keywords)

Rehearsal of key content.

Careful Sequenced topics (demonstrate independently and confidently).

Coursework: Plan a project to visit RAF Cosford.

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
	<p>Topic: Whole Numbers & Calculations: Fractions, Percentages & Decimals: Units & Measures: (time)</p> <p>Start coursework year 11 only</p> <p>Suggested Key Questions: Promote basic facts-not overload Rehearse key words</p> <p>Do you you're your place value? Know addition and subtraction. Do you recognize your halves/quarters? Is it am or pm? Can you tell the time to the hour?</p> <p>Skills and Knowledge</p> <p>Whole Numbers & Calculations:</p>	<p>Topic: Multiples: Units & Measures: (Money) Shapes & Solids:</p> <p>Start coursework year 11 only</p> <p>Suggested Key Questions: Promote basic facts-not overload Rehearse key words</p> <p>What is doubling? Do you know your multiplications? Do you know your divisions? Do you know your British coins? Do you know your 2d/3d shapes properties?</p> <p>Key Skills and Knowledge: Multiples:</p>	<p>Topic: Whole Numbers & Calculations:</p> <p>Lists & Outcomes: Units & Measures: (Height/capacity/weight) Revision-specific to child needs-preparation for exam</p> <p>Suggested Key Questions: Promote basic facts-not overload Rehearse key words</p> <p>Key Skills and Knowledge:</p> <p>Whole Numbers & Calculations: Understand vocabulary associated with numerical calculations such as sum,</p>	<p>Topic: Fractions, Percentages & Decimals:</p> <p>Proportionality Revision-specific to child needs-preparation for exam</p> <p>Suggested Key Questions: Promote basic facts-not overload Rehearse key words</p> <p>Can you had half a shape? Can you shade $\frac{1}{4}$ of a shape? How many eggs will you need to make a cake for 2/4/6 people?</p> <p>Gateway</p> <p>Key Skills and Knowledge:</p>	<p>Topic: Multiples: & Measures (angles)</p> <p>Suggested Key Questions: Promote basic facts-not overload Rehearse key words</p> <p>What is doubling? Do you know the multiples of 2x tables? Do you know the multiples of 5x tables? What is an acute angle? What is an obtuse angle?</p> <p>Key Skills and Knowledge:</p> <p>Multiples: Know and use multiplication/division of whole numbers up to 12 x 12 and use this knowledge in multiplication and division problems to estimate using multiplication and division.</p>	<p>Topic: Whole Numbers & Calculations:</p> <p>Shapes & Solids:</p> <p>Suggested Key Questions: Promote basic facts-not overload Rehearse key words</p> <p>Can you add across 10/20/100/1000? Can you subtract across 10/20/100/1000? What vertices/edges and sides of a 3d shape? What is symmetry?</p> <p>Key Skills and Knowledge:</p> <p>Fluently add whole numbers up to 1000/ Subtract a single-digit number from an initial value no greater than 1000.</p>

	<p>Start to Add/subtract whole numbers up to 1000 with limited support.</p> <p>Fractions, Percentages & Decimals</p> <p>Recognise half, quarter and three quarters in words, numbers and diagrams. Represent half, quarter and three quarters on diagrams. Recognise that two halves, four quarters or ten tenths make one whole and that five tenths and one half are equivalent. Represent equivalence in diagrams. Recognise equivalent fractions, including fractional quantities greater than 1. Understand and use mixed fraction and vulgar ('top heavy') fraction notation.</p> <p>Units & Measures: (time)</p> <p>Understand and use am/pm method of stating time.</p> <p>Understand and use 12 and 24-hour clock notation. Convert between 12 and 24-hour clock notation</p>	<p>. Know and use multiplication of whole numbers up to 12 x 12 and use this knowledge in multiplication and division problems.</p> <p>Perform simple calculations where the units of quantities are whole numbers of hundreds. Perform simple calculations where the units of quantities are whole numbers of thousands or millions.</p> <p>Units & Measures:</p> <p>Order collection of coins and notes. Give change from £5.</p> <p>. Select coins and notes equivalent to an amount of money up to £20. Give change from £20</p> <p>Shapes & Solids:</p> <p>Read scales showing temperatures from zero. Compare positive integer temperatures. Read scales showing temperatures above and below zero and compare temperatures</p>	<p>difference, share, total, twice, triple.</p> <p>Limited support Subtract whole numbers from an initial value no greater than 1000.</p> <p>Lists & Outcomes:</p> <p>Complete or extract information from lists with a maximum of two columns or two rows. Complete or extract information from printed lists more than two columns or rows.</p> <p>Units & Measures: (Height/capacity/weight)</p> <p>Visually compare lengths,height/weight and capacity.</p> <p>Estimate heights, lengths and weights of everyday objects</p> <p>Understand how equipment such as trundle wheels, metre rule, etc. can be used to measure distance..</p>	<p>Fractions, Percentages & Decimals:</p> <p>Order one digit decimals. Order decimals and fractions.</p> <p>Find 50%, 25% and 10% of two digit numbers, limited to results which are whole number answers. Find 1%, 25% and 10% of two digit numbers, limited to results which are whole number answers. Find other percentage quantities by combining results.</p> <p>Proportion.</p> <p>Solve simple problems using systematic analysis e.g. adapt a 2 person recipe for 1 person, 3 people, 20 people, etc.</p>	<p>Perform simple calculations where the units of quantities are whole numbers of thousands or millions.</p> <p>Estimate approximate cost of a list of multiple items to determine if purchases can be made within a stated budget.</p> <p>Units & Measures:</p>	<p>Fluently add whole numbers up to 1000/ Subtract whole numbers from an initial value no greater than 1000.</p> <p>Fluently draw lines and draw shapes with single vertical lines of symmetry. Understand the terms symmetry, symmetrical.</p> <p>Fluently Identify lines and draw shapes which have horizontal and/or vertical lines of symmetry Understand the terms reflection and reflectional symmetry. Fluently recognise simple plane shapes, patterns or pictures that have reflectional symmetry.</p>
Links to Gatsby Benchmarks:	Benchmark 4 Links to STEM opportunities and careers involve Mathematics	Benchmark 2 Share key employment statistics of current job market. How is the current market useful for mathematic skills?	Benchmark 2 Share key employment statistics of current job market. How is the current market useful for mathematic skills?	Benchmark 2 Share key employment statistics of current job market. How is the current market useful for mathematic skills?	Benchmark 4 Links to STEM opportunities and careers involve Mathematics	Benchmark 2 Share key employment statistics of current job market. How is the current market useful for mathematic skills?