

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

11n Class - Navigator Curriculum 3 hours per week.

Max 6 hours per topic.

Core mathematical facts, concepts, methods and strategies to be able to experience success when problem-solving.

Promote word problems to solve GCSE (2/6 mark questions).

Apply understanding to a range of topics.

Year	2023 – 2024 Autumn 1 Unit 1	2023 – 2024 Autumn 2 Unit 2	2023 – 2024 Spring 1 Unit 3	2023 – 2024 Spring 2 Unit 4	2023 – 2024 Summer 1 Unit 5	2023 – 2024 Summer 2 Unit 6
	<p>Topic: Calculation=addition and subtraction. Fractions and decimals and percentages. Measure and accuracy-Time GCSE Revision. (Teacher to select appropriate topic to meet the needs of the cohort)</p> <p>Suggested Key Questions Can you tackle a word problem based on the topic addition and subtraction? Can you measure with accuracy?</p> <p>Can students recognise, find and name a half as one of two equal parts of an object, shape or</p>	<p>Topic: Calculations/ multiplication and division. Measure and accuracy-Money Working in 2d/3d. GCSE Revision (Teacher to select appropriate topic to meet the needs of the cohort)</p> <p>Multiplication of two digit numbers use grid method. Division use bus stop method.</p> <p>Suggested Key Questions: Can you tackle multiplication and division word problems problems Can you tackle word problems based on</p>	<p>Topic: Algebra Data and statistics Measure and accuracy-weight/capacity/volume. GCSE Revision (Teacher to select appropriate topic to meet the needs of the cohort)</p> <p>Suggested Key Questions: Can you tackle a word problem based on the topic.</p> <p>Promote core facts Can you apply your understanding to GCSE questions involving statistics?</p> <p>Key Skills and Knowledge: Reinforce collecting like</p>	<p>Topic: GCSE Exam Revision (Teacher to select appropriate topic to meet the needs of the cohort)</p> <p>Suggested Key Questions: Promote core facts Can you tackle a word problem based on the topic. Can you apply your understanding to GCSE sequence/ratio and proportion questions?</p> <p>Key Skills and Knowledge: Use ratio notation, including reduction to simplest form Use ratio notation, including reduction to simplest form Generate theoretical sample spaces for</p>	<p>Topic: GCSE Exam Revision (Teacher to select appropriate topic to meet the needs of the cohort)</p> <p>Suggested Key Questions: Promote core facts Can you tackle a word problem involving fractions, percentages and decimals. Can you write fraction? Can you find equivalent fractions? Can you simplify fractions?</p> <p>Key Skills and Knowledge: Use the four operations, including formal written methods, applied to integers, decimals,</p>	<p>Topic: Angles and polygons Working in 2d/3d Measure and accuracy. AQA Level 1 unit (teacher to select)</p> <p>Suggested Key Questions: Promote core facts Can you tackle a word problem involving angles and polygons? Key Skills and Knowledge: Calculate and solve problems involving: perimeters of 2-D shapes (including circles), areas of circles and composite shapes Identify and construct congruent triangles, and construct similar shapes by enlargement, with and without coordinate grids.</p>

	<p>quantity</p> <p><u>Key Skills and Knowledge:</u></p> <p>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) Round any number to the nearest 10, 100 or 1 000 Round decimals with one decimal place to the nearest whole number</p>	<p>the topic? Can you apply your understanding to a range of GCSE questions?</p> <p>Promote core facts <u>Key Skills and Knowledge:</u></p> <p>Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</p> <p>Multiply a whole number by 10. Recognise when any number will give a whole number when divided by 10</p> <p>Understand the index notation for squared and cubed and be able to calculate the results of squared and cubed powers on the numbers 1–5 and 10.</p>	<p>terms and simplifying. Substitute numerical values into formulae and expressions, including scientific formulae.</p> <p>Can you solve problems involving media, mean, mode and range.</p>	<p>single and combined events with equally likely, mutually exclusive outcomes and use these to calculate theoretical probabilities</p> <p>Generate terms of a sequence from either a term-to-term or a position-to-term rule.</p>	<p>proper and improper fractions, and mixed numbers, all both positive and negative</p> <p>Recognise and use relationships between operations including inverse operations</p>	<p>Derive and use the sum of angles in a triangle and use it to deduce the angle sum in any polygon, and to derive properties of regular polygons</p>
<p>Links to Gatsby Benchmarks:</p>	<p><u>Benchmark 2</u> Labour market to information. What are the current trends in the jobs market that involve maths skills that students are learning.</p> <p><u>Benchmark 4.</u> STEM opportunities-linking career opportunities and what aspects of mathematics they are learning.</p>	<p><u>Benchmark 2</u> Labour market to information. What are the current trends in the jobs market that involve maths skills that students are learning.</p> <p><u>Benchmark 4.</u> STEM opportunities-linking career opportunities and what aspects of mathematics they are learning.</p>	<p><u>Benchmark 2</u> Labour market to information. What are the current trends in the jobs market that involve maths skills that students are learning.</p> <p><u>Benchmark 4.</u> STEM opportunities-linking career opportunities and what aspects of mathematics they are learning.</p>	<p><u>Benchmark 2</u> Labour market to information. What are the current trends in the jobs market that involve maths skills that students are learning.</p> <p><u>Benchmark 4.</u> STEM opportunities-linking career opportunities and what aspects of mathematics they are learning.</p>	<p><u>Benchmark 2</u> Labour market to information. What are the current trends in the jobs market that involve maths skills that students are learning.</p> <p><u>Benchmark 4.</u> STEM opportunities-linking career opportunities and what aspects of mathematics they are learning.</p>	<p><u>Benchmark 2</u> Labour market to information. What are the current trends in the jobs market that involve maths skills that students are learning.</p> <p><u>Benchmark 4.</u> STEM opportunities-linking career opportunities and what aspects of mathematics they are learning.</p>

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Develop fluency
Reason mathematically
Solve problems