9N Class - Navigator Curriculum

Core mathematical facts, concepts, methods and strategies to be able to experience success when problemsolving.

Year 24- 25	2024 – 2025	2024 – 2025	2024 – 2025	2024 – 2025	2024 – 2025	2024 – 2025
	Topic: Calculation NPV Addition and subtraction.	Topic: Addition and subtraction.	<u>Topic:</u> Algebra	Topic: Number Ratio/ Probability	Topic: Calculation. Addition and subtraction.	Topic: Angles and polygons Working in 2d/3d Measure and accuracy.
	Multiplication and division.	Measure and accuracy-Time	Data and statistics	Fractions. Suggested Key Questions:	Sequence (nth term)	Suggested Key Questions: Promote core facts Can you tackle a word
	Suggested Key Questions Can you tackle a word problem based on the topic. Promote core facts. Do you understand place value? Can you calculate	Suggested Key Questions: Can you tackle a word problem based on the topic.	Suggested Rey Questions: Can you tackle a word problem based on the topic. Promote core facts Can you extract data? Can you present	Can you tackle a word problem based on the topic. Can you link likelihood and chance? Can you Develop fluency	Suggested Key Questions: Promote core facts Can you tackle a word problem based on the topic. Can you order pagative numbers?	problem based on the topic. Do you know what opposite angles are? Do you know about angles inside triangles? Key Skills and Knowledge:
	can you calculate using the add/subtract operations? Can you use Bidmas in multi stage calculations? Can students recognise, find and name a half as one of two equal parts of an object, shape or quantity	involving addition. Can you Develop fluency Reason mathematically Solve problems involving time Can you Develop fluency Reason mathematically involving time	can you present data? Can you use symbols? Can you Develop fluency Reason mathematically Solve problems involving algebra. Can you Develop fluency Reason mathematically	Reason mathematically Solve problems involving algebra. Can you Develop fluency Reason mathematically Solve problems involving number. Can you Develop fluency	What are factors and multiples? Can you order decimal numbers? What are square numbers? Can you read scales? What is perimeter/ What is area?	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.

	 Call you use understanding of title, labels and simple scales? (sixth-form) Key Skills and Knowledge: Count backwards through zero to include negative numbers count in multiples of 6, 7, 9, 25 and 1000 identify, represent and estimate numbers using different representations Recognise, find, name and write fractions 31, 41, 42 and 43 of a length, shape, set of objects or quantity write simple fractions for example, 21 of 6 = 3 and recognise the equivalence of 42 and 21. Add fraction 	Key Skills and Knowledge: Recognise and use relationships between operations including inverse operations Round numbers and measures to an appropriate degree of accuracy Mathematically Solve problems involving time.	solve problems involving data and statistics. Do you know metric measure for length, mass and capacity. Key Skills and Knowledge: Describe, interpret and compare observed distributions of a single variable through: appropriate graphical representation involving discrete, continuous and grouped data; and appropriate measures of central tendency (mean, mode, median) and spread (range, consideration of outliers). construct and interpret appropriate tables, charts, and diagrams. Substitute numerical values into formulae and expressions, including scientific formulae.	mathematically Solve problems involving algebra. Can you Develop fluency Reason mathematically Solve problems involving ratios, probability and sequence. Key Skills and Knowledge: 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 Use fraction and percentages to describe a proportion.	Reinforce addiiton and subtraction Reinforce Count backwards through zero to include negative numbers count in multiples of 6, 7, 9, 25 and 1000 identify, represent and estimate numbers using different representations Solve problems aorung sequencing. Understand odd and even. Triangle numbers, square numbers, prime numbers.	of angles in a triangle and use it to deduce the angle sum in any polygon, and to derive properties of regular polygons
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.	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.	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.	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.	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.	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.

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Develop fluency Reason mathematically Solve problems