Stage 10 2022-23					
Autum	n Term	Spring	J Term	Summer Term	
1	2	1	2	1	2
1A Number & the number system 1B Calculating 1C Exploring FDP 2D Manipulating algebra	2E Solving equations & Inequalities 1 2F Probability 2G Sequences	3H Investigating properties of shape 3I Analysing statistics 3J Calculating space	4K Proportional reasoning 1 4L Algebraic Graphs 1 4M Algebraic Graphs 2 5N Transformatio ns	50 Vectors 5P Solving equations & Inequalities 2 5Q Proportional reasoning 1	6R Conjecturing
1A Estimate squares and cubes of numbers up to 100 • Estimate powers of numbers up to 10 • Estimate square roots of numbers up to 150 • Estimate cube roots of numbers up to 20 • Know that a0 = 1 131 67 Know that a1/n = $n\sqrt{a}$ 188 70 • Calculate with negative powers	2E Understand the use of a graph to represent an inequality in two variable 198 113- 115 • State the (simple) inequality represented by a shaded region on a graph 198 113-115 • Know when to use a dotted line as a boundary for an inequality on a graph 198 113- 115 • Know when to	3H • Establish the exact values of sin θ and cos θ for $\theta = 0^{\circ}$, 30°, 45°, 60° and 90° 173 • Establish the exact value of tan θ for $\theta =$ 0°, 30°, 45° and 60° 173 • Use unit triangles to find exact solutions for finding a side in a right angled triangle 173, 168 • Use trigonometry to evaluate solutions involving exact	4K Recognise a graph that illustrates direct proportion 119 92-97 • Recognise a graph that illustrates inverse proportion 119 92-97 • Interpret a graph that illustrates direct proportion 119 92-97 • Interpret a graph that illustrates inverse proportion 119 92-97 •	50 Understand the concept of a vector 174, 219 • Use diagrammatic representation of vectors 219 • Know and use different notations for vectors • Add (subtract) vectors 219 Multiply a vector by a scalar 219 Solve simple geometrical problems involving vectors 219 5P	6R Know the conditions for creating a right angle with three points on the circumference of a circle 183,184 221- 228 • Know that 'the angle in a semicircle is a right angle' (and others – see pedagogical notes) 183,184 221- 228 • Form a conjecture from a geometrical
	Autum 1 1A Number & the number system 1B Calculating 1C Exploring FDP 2D Manipulating algebra 1A Estimate squares and cubes of numbers up to 100 • Estimate powers of numbers up to 100 • Estimate squares and cubes of numbers up to 100 • Estimate cube square roots of numbers up to 150 • Estimate cube roots of numbers up to 20 • Know that a0 = 1 131 67 Know that a1/n = $n\sqrt{a}$ 188 70 • Calculate with negative powers 154 68 Calculate	Determinant12 1A Number & the number system2E Solving equations & Inequalities 11B Calculating 1C Exploring FDP 2D Manipulating algebra2F Probability 2G Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences1A2E Sequences15State the use sequer roots of numbers up to 15015State the simate cube roots of numbers up to 20 · Know that a0 = 1 131 67 Know that a1/n = n√a 188 70 • Calculate with negative powers 154 68 CalculateState the solid line as a solid line as a solid line as a solid line as a	Autumn TermSpring1211A Number & the number system2E Solving equations & Inequalities 13H Investigating properties of shape1C Exploring FDP 2D Manipulating algebra2F Probability 2G Sequences3I Analysing statistics 3J Calculating space1A2E3H1A2E3I Analysing statistics 3J Calculating space1A2E3H2D Manipulating algebra2G Sequences3I Analysing statistics 3J Calculating space1A2E3HEstimate squares and cubes of numbers up to 100 • Estimate powers of numbers up to 10 • Estimate square roots of numbers up to 150 • Estimate cube roots of numbers up to 20 • Know that a0 = 1 131 67 Know that a1/n = $n\sqrt{a}$ 188 70 •2ENow that a1/n = nsqaive powersgraph 198 113-115 • Know when to use a dotted line as a boundary for an inequality on a trigonometry to evaluate solutions involving exact values of sin, cos	Stage LU 2U22-23Autumn TermSpring Term1212121A Number & the number system 1B Calculating 1C Exploring FDP 2D Manipulating algebra2E Solving equations & Inequalities 1 2G Sequences3H Investigating properties of shape 3I Analysing statistics 3J Calculating space4K Proportional reasoning 1 4L Algebraic Graphs 1 4M Algebraic Graphs 2 SN Transformatio ns1A2E Understand the use of a graph to represent an inequality in two variable 198 113- 10 • Estimate powers of numbers up to 100 • Estimate cube roots of numbers up to 20 • Know that a1/n = $n\sqrt{a}$ 188 70 • Calculate with megative powers3H estabilish the exact values of sind and cos0 for $\theta = 0^{\circ}$, 30°, 45° and 60° inverse proportion 173 • Use unit triangles to find trigonometry to tal 18 70 • Calculate with ergresent an inequality on a graph 198 113-115 • Know when to use a dotted line as a boundary for an inequality on a graph 198 113-115 • Know when to use a solid line as a use a solid line as a3H a walues of sin, cos4K Hat illustrates that illustrates inverse proportion154 68 Calculate2E use a solid line as a use a solid line as a3H trigonometry to values of sin, cos4K Understand that X is	Stage 10 2022-225Autum TermSpring TermSumme121211A Number & the number system 1B Calculating 1C Exploring FDP 2D Manipulating algebra2E Solving equations & Inequalities 1 2G Sequences3H Investigating properties of shape 3I Analysing statistics 3J Calculating space4K Proportional reasoning 15D Solving equations & Inequalities 21A2E3F Probability 2G Sequences3I Analysing statistics 3J Calculating

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	Test	Unit tests	Test	Unit tests	Test	Unit tests
	Unit tests		Unit tests		Unit tests	

Curricul	um Area: Maths		
Subject			
Year Group	Basic (Lower Ability End Points)	Clear (Middle Ability End Points)	Detailed (Higher Ability End Points)
7	Pupils use mathematics as an integral part of classroom activities. They represent their work with objects or pictures and discuss it. They recognise and use a simple pattern or relationship.	Pupils develop their own strategies for solving problems and use these strategies both in working within mathematics and in applying mathematics to practical contexts. When solving problems, with or without ICT, they check their results are reasonable by considering the context. They look for patterns and relationships, presenting information and results in a clear and organised way, using ICT appropriately. They search for a solution by trying out ideas of their own.	Pupils carry out substantial tasks and solve quite complex problems by independently and systematically breaking them down into smaller, more manageable tasks. They interpret, discuss and synthesise information presented in a variety of mathematical forms, relating findings to the original context. Their written and spoken language explains and informs their use of diagrams. They begin to give mathematical justifications, making connections between the current situation and situations they have encountered before.
8	Pupils select the mathematics they use in some classroom activities. They discuss their work using mathematical language and are beginning to represent it using symbols and simple diagrams. They explain why an answer is correct.	In order to explore mathematical situations, carry out tasks or tackle problems, pupils identify the mathematical aspects and obtain necessary information. They calculate accurately, using ICT where appropriate. They check their working and results, considering whether these are sensible. They show understanding of situations by describing them mathematically using symbols, words and diagrams. They draw simple conclusions of their own and explain their reasoning.	Starting from problems or contexts that have been presented to them, pupils explore the effects of varying values and look for invariance in models and representations, working with and without ICT. They progressively refine or extend the mathematics used, giving reasons for their choice of mathematical presentation and explaining features they have selected. They justify their generalisations, arguments or solutions, looking for equivalence to different problems with similar structures. They appreciate the difference between

Curricu	lum Area: Maths		
Subject	:		
Year Group	Basic (Lower Ability End Points)	Clear (Middle Ability End Points)	Detailed (Higher Ability End Points)
			mathematical explanation and experimental evidence.
9	Pupils try different approaches and find ways of overcoming difficulties that arise when they are solving problems. They are beginning to organise their work and check results. Pupils discuss their mathematical work and are beginning to explain their thinking. They use and interpret mathematical symbols and diagrams. Pupils show that they understand a general statement by finding particular examples that match it.	Pupils carry out substantial tasks and solve quite complex problems by independently and systematically breaking them down into smaller, more manageable tasks. They interpret, discuss and synthesise information presented in a variety of mathematical forms, relating findings to the original context. Their written and spoken language explains and informs their use of diagrams. They begin to give mathematical justifications, making connections between the current situation and situations they have encountered before.	Pupils develop and follow alternative approaches. They compare and evaluate representations of a situation, introducing and using a range of mathematical techniques. They reflect on their own lines of enquiry when exploring mathematical tasks. They communicate mathematical or statistical meaning to different audiences through precise and consistent use of symbols that is sustained throughout the work. They examine generalisations or solutions reached in an activity and make further progress in the activity as a result. They comment constructively on the reasoning and logic, the process employed and the results obtained.
10	Pupils develop their own strategies for solving problems and use these strategies both in working within mathematics and in applying mathematics to practical contexts. When solving problems, with or without ICT, they check their results are reasonable by considering the context. They look for patterns and relationships, presenting	Starting from problems or contexts that have been presented to them, pupils explore the effects of varying values and look for invariance in models and representations, working with and without ICT. They progressively refine or extend the mathematics used, giving reasons for their choice of mathematical presentation and explaining features they have selected.	Pupils critically examine the strategies adopted when investigating within mathematics itself or when using mathematics to analyse tasks. They explain why different strategies were used, considering the elegance and efficiency of alternative lines of enquiry or procedures. They apply the mathematics they know in a wide range of

Curricul	um Area: Maths		
Subject	:		
Year Group	Basic (Lower Ability End Points)	Clear (Middle Ability End Points)	Detailed (Higher Ability End Points)
	organised way, using ICT appropriately. They search for a solution by trying out ideas of their own.	solutions, looking for equivalence to different problems with similar structures. They appreciate the difference between mathematical explanation and experimental evidence.	mathematical language and symbols effectively in presenting a convincing, reasoned argument. Their reports include mathematical justifications, distinguishing between evidence and proof and explaining their solutions to problems involving a number of features or variables
11	In order to explore mathematical situations, carry out tasks or tackle problems, pupils identify the mathematical aspects and obtain necessary information. They calculate accurately, using ICT where appropriate. They check their working and results, considering whether these are sensible. They show understanding of situations by describing them mathematically using symbols, words and diagrams. They draw simple conclusions of their own and explain their reasoning.	Pupils develop and follow alternative approaches. They compare and evaluate representations of a situation, introducing and using a range of mathematical techniques. They reflect on their own lines of enquiry when exploring mathematical tasks. They communicate mathematical or statistical meaning to different audiences through precise and consistent use of symbols that is sustained throughout the work. They examine generalisations or solutions reached in an activity and make further progress in the activity as a result. They comment constructively on the reasoning and logic, the process employed and the results obtained.	Pupils perform procedures accurately. They interpret, communicate complex information accurately and make deductions and inferences and draw conclusions. Pupils can construct substantial chains of reasoning, including convincing arguments and formal proofs. They generate efficient strategies to solve complex mathematical and non- mathematical problems by translating them into a series of mathematical processes. Pupils make and use connections, which may not be immediately obvious, between different parts of mathematics and interpret results in the context of the given problem. They critically evaluate methods, arguments, results and the assumptions made.

LITERACY

Pupils will develop their spelling of key mathematical words. This will be monitored using spelling tests at the start and end of each unit. This will be SPAG marked. Pupils will be given opportunities to write in sentences and paragraphs when suited to the topic.

Why this? Why now?	Mathematics is an interconnected subject in which pupils need to be able to move fluently between representations of mathematical ideas. The programme of study for key stage 3 is organised into apparently distinct domains, but pupils should build on key stage 2 and connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. They should also apply their mathematical knowledge in science, geography, computing and other subjects. The structure is designed to bridge between KS2 and KS4, building both within and between key topic areas. The structure also builds the complexity levels within topics and gives a greater variation in the challenge given to pupils.
Skills & Charactoricti	Resilience
cs	knowledge to develop mathematical fluency and applying skills to a variety of situations and problems. Pupils will be challenged in all lessons and will show that they have learned from mistakes through a variety of tasks including connect exercises. The challenge activities will have the aim of developing both skills and high aspirations in both this subject and life beyond. Resilience will also be developed within the Key maths skills below (fluency, reasoning and problem solving).
	Collaboration
	Pupils will be given the opportunity to work together to develop and share their ideas on topics, discuss misconceptions and how these topics can be used in real-life situations.
	Creativity Pupils will develop creativity through a variety of problem solving activities within each topic, working on independent tasks beyond the classroom such as Mangahigh activities, and apply the key skills (fluency, reasoning and problem solving).
	Skills Builder COMMUNICATION = Listening & Speaking

Pupils are expected to actively listen so that they can follow instructions and pick out misconceptions. (LISTENING) CREATIVE PROBLEM SOLVING = Problem Solving & Creativity Problem solving is an important part of Mathematics and ensures that they develop their mathematical thinking and helps build resilience. (PROBLEM SOLVING) SELF-MANAGEMENT: Staying Positive & Aiming High All pupils attempt Bronze/Silver/Gold tasks and choose their starting point and aim for one or two steps of progress within each lesson. (AIMING HIGH) COLLABORATION: Leadership & Teamwork Pupils are expected to collaborate on many tasks, supporting each other to help all to progress. (TEAMWORK)
Develop fluency Consolidate their numerical and mathematical capability from key stage 2 and extend their understanding of the number system and place value to include decimals, fractions, powers and roots
Select and use appropriate calculation strategies to solve increasingly complex problems
Duse algebra to generalise the structure of arithmetic, including to formulate mathematical relationships
Substitute values in expressions, rearrange and simplify expressions, and solve equations
nove freely between different numerical, algebraic, graphical and diagrammatic representations [for example, equivalent fractions, fractions and decimals, and equations and graphs]
đevelop algebraic and graphical fluency, including understanding linear and simple quadratic functions 슈use language and properties precisely to analyse numbers, algebraic expressions, 2-Dand 3-D shapes, probability and statistics.
Reason mathematically
Dextend and formalise their knowledge of ratio and proportion in working with measures and geometry, and in formulating proportional relations algebraically

	Gidentify variables and express relations between variables algebraically and graphically
	Drake and test conjectures about patterns and relationships; look for proofs or counter- examples
	Degin to reason deductively in geometry, number and algebra, including using geometrical constructions
	Cinterpret when the structure of a numerical problem requires additive, multiplicative or proportional reasoning
	Pexplore what can and cannot be inferred in statistical and probabilistic settings, and begin to express their arguments formally.
	Solve problems
	develop their use of formal mathematical knowledge to interpret and solve problems, including in financial mathematics
	Pbegin to model situations mathematically and express the results using a range of formal mathematical representations
	Select appropriate concepts, methods and techniques to apply to unfamiliar and non- routine problems.
Aspirations & Careers	All pupils should be numerate and able to use mathematics at both work and in everyday life beyond school. Mathematics is fundamental to future success and closely linked with financial success. It enhances their ability to infer, problem solve, think logically, spot patterns as well as navigate through their chosen career with a well-equipped vocabulary. Furthermore, mathematics empowers our pupils to operate in the modern world. CDI: 1, 11
	CEIAG AMSP days Careers Fairs Career themed lessons Finance lessons (CDI: 13) Cultural Capital Maths challenges

Mangahigh challenges
Mathematics in the real world
Organising trips, days out and other events
Extracurricular
Stretch and challenge club
Chess & games club
Homework club