MATHEMATICS

Year	Subject	AP	Band A	Band B	Band C
7	Mathematics	AP1	Students can: • Develop their mathematical knowledge, through solving problems and evaluating the outcomes, including multi-step problems. • Select and use appropriate calculation strategies to solve increasingly complex problems. • Use algebra to generalise the structure of arithmetic, including formulating mathematical relationships. • Develop algebraic and graphical fluency, including understanding linear and simple quadratic functions. • Demonstrate accurate and relevant knowledge and understanding of ratio, proportion and rates of change. • Extend and formalise their knowledge of ratio, proportion in working with measures and	Students can: • Develop their mathematical knowledge, through solving problems and beginning to evaluate the outcomes. • Use appropriate calculation strategies to solve problems. • Use algebra to begin to generalise the structure of arithmetic, including formulating mathematical relationships. • Develop algebraic and graphical fluency, including understanding linear functions. • Demonstrate some relevant knowledge and understanding of ratio, proportion and rates of change. • Apply their knowledge of ratio, proportion in working with measures and geometry, and in formulating proportional relations. • Describe, interpret, draw and analyse statistical data, tables,	Students can: • Develop their mathematical knowledge, through solving problems. • Use different calculation strategies to solve simple problems. • Use algebra to begin to generalise the structure of arithmetic. • Develop algebraic and graphical techniques, including beginning to understand linear functions. • Demonstrate some knowledge and understanding of ratio, proportion and rates of change. • Apply their knowledge of ratio, proportion in working with measures and geometry. • Describe, interpret, draw and analyse statistical data, tables, graphs and charts to draw conclusions and make basic interpretations.

			geometry, and in formulating proportional relations. • Describe, interpret, draw and analyse statistical data, tables, graphs and charts to draw conclusions and make reasonable interpretations.	graphs and charts to draw conclusions and make reasonable interpretations.	
7	Mathematics	AP2	Students can: • Develop their mathematical knowledge, through solving problems and evaluating the outcomes, including multi-step problems. • Select and use appropriate calculation strategies to solve increasingly complex problems. • Use algebra to generalise the structure of arithmetic, including formulating mathematical relationships. • Develop algebraic and graphical fluency, including understanding linear and simple quadratic functions.	Students can: • Develop their mathematical knowledge, through solving problems and beginning to evaluate the outcomes. • Use appropriate calculation strategies to solve problems. • Use algebra to begin to generalise the structure of arithmetic, including formulating mathematical relationships. • Develop algebraic and graphical fluency, including understanding linear functions. • Demonstrate some relevant knowledge and understanding of ratio, proportion and rates of change.	Students can: • Develop their mathematical knowledge, through solving problems. • Use different calculation strategies to solve simple problems. • Use algebra to begin to generalise the structure of arithmetic. • Develop algebraic and graphical techniques, including beginning to understand linear functions. • Demonstrate some knowledge and understanding of ratio, proportion and rates of change. • Apply their knowledge of ratio, proportion in working with measures and geometry.

			• Demonstrate accurate and relevant knowledge and understanding of ratio, proportion and rates of change. • Extend and formalise their knowledge of ratio, proportion in working with measures and geometry, and in formulating proportional relations. • Describe, interpret, draw and analyse statistical data, tables, graphs and charts to draw conclusions and make reasonable interpretations.	• Apply their knowledge of ratio, proportion in working with measures and geometry, and in formulating proportional relations. • Describe, interpret, draw and analyse statistical data, tables, graphs and charts to draw conclusions and make reasonable interpretations.	• Describe, interpret, draw and analyse statistical data, tables, graphs and charts to draw conclusions and make basic interpretations.
8	**Mathematics**	**AP1**	Students can: • Develop their use of mathematical knowledge to interpret and solve problems, including in financial mathematics. • Select and use appropriate calculation strategies to solve increasingly complex problems. • Use algebra to generalise the structure of arithmetic, including formulating mathematical relationships.	Students will: • Develop their use of mathematical knowledge to solve problems, including in financial mathematics. • Use appropriate calculation strategies to solve problems. • Use algebra to begin to generalise the structure of arithmetic, including formulating mathematical relationships. • Develop algebraic and graphical fluency, including understanding linear functions.	Students will: • Use their mathematical knowledge to solve problems, including in financial mathematics. • Use different calculation strategies to solve simple problems. • Use algebra to begin to generalise the structure of arithmetic. • Develop algebraic and graphical techniques, including beginning to understand linear functions.

			• Develop algebraic and graphical fluency, including understanding and interpreting linear functions. • Extend and formalise their knowledge of ratio, proportion and rates of change in working with measures and geometry, and in formulating proportional relations algebraically. • Explore what can and cannot be inferred in statistical and probabilistic settings, and begin to express their arguments formally. • Use language and properties precisely to analyse numbers, algebraic expressions, 2-D and 3-D shapes, probability and statistics.	• Demonstrate some relevant knowledge and understanding of ratio, proportion and rates of change. • Apply their knowledge of ratio, proportion in working with measures and geometry, and in formulating proportional relations algebraically. • Begin to explore what can and cannot be inferred in statistical and probabilistic settings, and begin to express their arguments formally. • Use language and properties to analyse numbers, algebraic expressions, 2-D and 3-D shapes, probability and statistics.	• Demonstrate some knowledge and understanding of ratio, proportion and rates of change. • Apply their knowledge of ratio, proportion in working with measures and geometry. • Use language and properties to begin to analyse numbers, algebraic expressions, 2-D and 3-D shapes, probability and statistics
8	Mathematics	AP2	Students can: • Develop their use of mathematical knowledge to interpret and solve problems, including in financial mathematics. • Select and use appropriate calculation strategies to solve increasingly complex problems.	Students will: • Develop their use of mathematical knowledge to solve problems, including in financial mathematics. • Use appropriate calculation strategies to solve problems. • Use algebra to begin to generalise the structure of arithmetic,	Students will: • Use their mathematical knowledge to solve problems, including in financial mathematics. • Use different calculation strategies to solve simple problems. • Use algebra to begin to generalise the structure of arithmetic.

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9	**Mathematics**	**AP1**	Students can: • Select and use appropriate calculation strategies to solve increasingly complex problems. • Use algebra to generalise the structure of arithmetic, including formulating mathematical relationships. • Develop algebraic and graphical fluency, including understanding linear and simple quadratic functions. • Extend and formalise their knowledge of ratio, proportion and rates of change in working with measures and geometry, and in formulating proportional relations algebraically. • Describe, interpret, draw and analyse statistical data, tables, graphs and charts to draw conclusions and make reasonable interpretations. • Explore what can and cannot be inferred in statistical and probabilistic settings, and begin to express their arguments formally.	Students can: • Develop their use of mathematical knowledge to solve problems, including in financial mathematics. • Use appropriate calculation strategies to solve problems. • Use algebra to begin to generalise the structure of arithmetic, including formulating mathematical relationships. • Develop algebraic and graphical fluency, including understanding linear functions. • Demonstrate some relevant knowledge and understanding of ratio, proportion and rates of change. • Apply their knowledge of ratio, proportion in working with measures and geometry, and in formulating proportional relations algebraically. • Describe, interpret, draw and analyse statistical data, tables, graphs and charts to draw conclusions and make reasonable interpretations.	Students can: • Use their mathematical knowledge to solve problems, including in financial mathematics. • Use different calculation strategies to solve simple problems. • Use algebra to begin to generalise the structure of arithmetic. • Develop algebraic and graphical techniques, including beginning to understand linear functions. • Demonstrate some knowledge and understanding of ratio, proportion and rates of change. • Apply their knowledge of ratio, proportion in working with measures and geometry. • Describe, interpret, draw and analyse statistical data, tables, graphs and charts to draw conclusions and make basic interpretations. • Begin to model situations mathematically and express the results using a few basic mathematical representations.

			• Begin 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.	• Begin to explore what can and cannot be inferred in statistical and probabilistic settings, and begin to express their arguments formally. • Begin to model situations mathematically and express the results using a few formal mathematical representations.	
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			formulating proportional relations algebraically. • Describe, interpret, draw and analyse statistical data, tables, graphs and charts to draw conclusions and make reasonable interpretations. • Explore what can and cannot be inferred in statistical and probabilistic settings, and begin to express their arguments formally. • Begin 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.	• Apply their knowledge of ratio, proportion in working with measures and geometry, and in formulating proportional relations algebraically. • Describe, interpret, draw and analyse statistical data, tables, graphs and charts to draw conclusions and make reasonable interpretations. • Begin to explore what can and cannot be inferred in statistical and probabilistic settings, and begin to express their arguments formally. • Begin to model situations mathematically and express the results using a few formal mathematical representations.	• Describe, interpret, draw and analyse statistical data, tables, graphs and charts to draw conclusions and make basic interpretations. • Begin to model situations mathematically and express the results using a few basic mathematical representations.