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Curriculum Plan: Phase 2 Maths

Overview of Year

Autumn Term	**Number**				**Geometry and Measures**	
	1. Investigating Number Systems	2. Pattern Sniffing	3. Exploring Calculation	4. Generalising Arithmetic	5. Exploring Shape	6. Reasoning with Measures

Spring Term	**Number**			**Statistics**
	7. Discovering Equivalence	8. Reasoning with Fractions	9. Solving Number Problems	10. Investigating Statistics

Summer Term	**Geometry**	**Number**		**Geometry and Measures**	
	11. Visualising Shape	12. Exploring Change	13. Proportional Reasoning	14. Describing Position	15. Measuring and Estimating

Areas of Maths covered up to Year 6 and topics areas within

Stage 5 Year Overview		
Unit	**Learning Hours**	**Summary of Key Content**
1. Investigating Number Systems	13	Read, write, compare and order numbers up to 1 000 000; read Roman numerals to 1000; read, write and interpret negative numbers. Round integers to powers of 10, round decimals to 2dp, order decimals to 3dp
2. Pattern Sniffing	11	Count forwards, backwards in steps of powers of 10; multiply and divide numbers mentally Recognise and use square and cube numbers Identify factors and multiples, know and use prime numbers
3. Solving Calculation Problems	12	Add and subtract numbers mentally; Formal addition and subtraction up to 4d; Solve addition and subtraction multi-step problems in context; Formal multiplication up to 4d x 1d. Use rounding to check answers
4. Generalising Arithmetic	10	Multiply and divide whole numbers and decimals by 10, 100, 1000 Formal division up to 4d /1d.
5. Exploring Shape	12	Estimate and compare acute, obtuse and reflex angles Use properties of rectangles to find missing lengths and angles; identify regular polygons
6. Reasoning with Measures	10	Perimeter of rectilinear shapes; area of rectangles; estimate area or irregular shapes; estimate volume.
7. Discovering Equivalence	14	Mixed number and improper fractions; compare and order fractions with multiple denominators; identify and name equivalent fractions; count in hundredths; write decimals as fractions; recognise and use thousandths; understand per cent and % sign; write percentages as fractions over 100; solve problems involving equivalence of simple FDP.
8. Reasoning with Fractions	8	Add and subtract fractions with same denominators or those that are multiples of each other Multiply proper fractions and mixed numbers by integers (supported diagrammatically)
9. Solving Number Problems	8	Recap multiplication and division; Solve problems involving any of the four operations, including problems of factors, multiples and squares and problems involving decimals up to 3dp.
10. Investigating Statistics	6	Line graphs – comparison, sum and difference problems; complete, read and interpret tables
11. Visualising Shape	8	Draw given angles, measure them in degrees; identify 3D shapes from 2D representations
12. Exploring Change	4	Solve problems converting between units of time
13. Proportional Reasoning	4	Recap mental calculations; revisit formal methods for multiplication and division; solve calculation problems for 4 operations.
14. Describing Position	5	Describe position of shape following reflection or translation
15. Measuring and Estimating	8	Solve problems involving four operations and measures; convert between metric units; understand approximate metric-imperial conversions

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Curriculum Plan:

Phase 2 Reading

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Genre	Non - Fiction	Fiction	Non Fiction	Fiction	Non Fiction	Fiction
Text Type	Factfiles Non chronological reports	Playtexts Narrative Dialogue	Biographies of Significant People	Extended Narrative	Persuasion/ Argument	Poetry and Classic Verse
Suggested Content	*Science Fiction* *Non-fiction texts based on Space*	*Hamlet* *King Lear*	*Nelson Mandela* *Anne Frank* *Roald Dahl*	*Adventure stories* *Ghost stories* *Fantasy stories* *Traditional tales*	*Journalism* *Debate*	*Nonsense poems of Edward Lear* *The Highwayman* *The Listeners* *The Pied Piper*

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Curriculum Plan: Phase 2 Project Based Learning

Term		Project Title	Intention	Driving Question
Autumn	1st Half Term	Explorers of the Future	To learn about the science, dt and communications issues of living beyond Earth's atmosphere	What would it be like to live on another planet?
	2nd Half Term	Our Winter Performance	To research about what helps make a great performance and contribute to one	How can we celebrate winter?
Spring	1st Half Term	The Second World War	To think about the second world war and what we can learn from this episode in history	What can we learn from the second world war?
	2nd Half Term	Looking After our Coastline	To learn about the coastline and issues around its conservation	How can we contribute to coastal protection?
Summer	1st Half Term	Rising to Challenges	To learn about the emotions involved in rising to the challenge	How does it feel to rise to the challenge?
	2nd Half Term	The PSCA world cup Olympics Year Six Leavers	To learn about what makes great sportspeople / to plan a year six party	How can I perform at my very best?