

Maths Curriculum Overview – Raedwald Trust Cross-Site

Curriculum Overview for Math's					
CYCLE A: Autumn Term					
Subject Area	Unit 1 Number	Unit 2 Algebra	Unit 3 Ratio and Proportion	Unit 4 Statistics	Unit 5 Shape
Taught Content Knowledge/skills	- Core Maths Skills (Place Value, addition subtraction, multiplication, division, Order of operations) - Highest common factor and LCM - Powers and index notation - Fractions, decimals and percentages - Adding, subtracting, multiplying and dividing fractions - Rounding whole number and decimal place	- Collecting Like terms - Expanding brackets - Expanding two brackets - Factorising expressions - Solving two/three term equations - Solving 4 term equations with brackets - Substitution into formulae - Pictograms and misrepresentation - Pie Charts (Previously Unit 9) Algebra - Types of sequence	- Simplifying and sharing - Sharing within a ratio - The difference between two values - Recipes - Best value - Exchange rates	- Stem and leaf diagrams - Averages (from listed data) - Interpreting averages from grouped data - Scatter diagrams	- Perimeter - Area-rectangles and triangle - Area of parallelograms and trapeziums - Area of compound shapes

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	• Rounding significant figure • Approximating and estimation • Finding a value with increase/decrease, with or without a calculator • Worded questions	• Finding the nth term rule • Using the nth term rule			
Key Skills	• Four operations, calculator use, writing fractions accurately, laying out of calculations. Times tables woven throughout	• Recognise that letters can represent an unknown value. • Apply formulae • Recognise that information can be represented in different forms • Accurately utilise these forms of data representation	• Recognising that ratio is part of the whole. • Dividing skills • Using correct notation "a:b" • Link to everyday use of Maths	• Represent and analyse data accurately • Organise information clearly using a standardised format • Use averages to describe relationships between data sets • Know that the range is not an average, but shows a spread of data	• Using correct formulae to calculate area and perimeter • Measuring accurately • Drawing shapes using a ruler accurately • Correct use of units • Understand the nature of shapes drawn to scale/not to scale. • Problem solving

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				Know how to calculate mean, median, mode.	
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CYCLE A: Spring Term				
Subject Content	Unit 6 Shape and Geometry	Unit 7 Shape and Geometry	Unit 8 Number	Unit 9 Probability
Core knowledge	• Area of trapezium and parallelogram • Area of a circle • Circumference of a circle • Volume of cuboids and prisms • Volume of composite shapes • Volume of cylinder • Surface area • Rotation • Translation • Reflection • Enlargement • Finding missing angles • Angles along parallel lines • Angles within polygons	• Finding missing lengths using trigonometry • Finding missing angles using trigonometry • Area of a circle • Circumference • Area of a trapezium	• Repeated percentage change • Finding percentage change • Finding the original	• Simple probability • Relative Frequency • Sample spaces • Independent tree diagram • Dependent tree diagram • Venn diagrams Unit 13 Probability • Probability • Experimental probability • Tree diagrams

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	- Bearings - Construction and Loci - Pythagoras Theorem			
Key Skills	- Measure accurately using a ruler and protractor - Use a compass correctly - Draw shapes accurately using ruler and protractor - Use multiplication and division to accurately portray enlargement.	- Calculator skills - Use of a formula triangle for SoH CaH ToA calculations. - Use pi accurately. Know that π $\pi=3.14....$	- Be able to use the appropriate vocabulary confidently - Be able to identify how best to present information - Be able to read and interpret diagrams presented in a variety of ways - Accurately identify “Impossible, evens, certain” events	- Use multiplication accurately - Link types of sequence to real life- eg Fibonacci, golden ratio - Accurately identify missing values

CYCLE A: Summer Term					
Subject Content	Unit 10 Number	Unit 11 Algebra	Unit 12 Statistics		
Core knowledge	Adding and subtracting mixed numbers	- Solving three term equations - Forming expressions and equations	Averages (mean, median, mode, and the range)		

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	• Multiplying mixed numbers • Dividing mixed numbers • Increase and decrease on with and without a calculator • Repeated percentage change • Finding percentage change • Adding and subtracting including negative numbers • Multiplication and division • Prime Factor trees • HCF and LCM Upper and lower bounds	• Linear graphs • $Y=mx+c$ • Quadratic equations • Standard form	• Interpreting averages from grouped data • Comparing averages		
Key Skills	• Know that per cent represent a value out of 100.	• Able to recognise principle of substituting letters	• Using vocabulary e.g. data set, average, mean median, mode	• Accurately identify “Impossible, evens, certain” events	

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	- Understand associated vocabulary e.g. prime - Organisation of calculations on the page to show working out - Reverse calculations to check accuracy - Negative notation	- and symbols for numbers - Identify that $y=mx+c$ graphs will represent gradient and crossing y axis - Be able to accurately draw a graph, including axis	- correctly - Accurately interpret data - Accurately compare data sets - Able to explain reasons for interpretations	- Multiply fractions and decimals - Be able to accurately identify likelihood of events - Accurately draw a tree diagram - Link to real life events- eg. Football games	
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CYCLE B Autumn Term					
Subject Area					
Core knowledge					
Key Skills					

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CYCLE B: Spring Term				
Subject Content				
Core knowledge				
Key Skills				

CYCLE B: Summer Term				
Subject Content				
Core knowledge				
Key Skills				