

Year 4: Maths Long Term Plan



THE PYTHON HILL ACADEMY

LABOR OMNIA VINCIT

*Our Ambition: To be the highest performing MAT in the country
Our Mission: To improve the communities we serve for the better*

Vision:

*Challenging educational orthodoxies so that every child makes good progress in all subjects;
all teachers are committed to personal improvement and fulfil their responsibilities;
all children receive an inspiring curriculum;
all academies strive to be outstanding.*

Mathematics Long Term Planning Support: Year 4

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Place Value 4 weeks				Number: Addition and Subtraction 3 weeks		
	<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations. Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones). Find 1000 more or less than a given number. Order and compare numbers beyond 1000. Round any number to the nearest 10, 100 or 1000. Solve number and practical problems that involve all of the above and with increasingly large positive numbers. Count backwards through zero to include negative numbers. Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. 				<ul style="list-style-type: none"> Add numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why. Estimate and use inverse operations to check answers to a calculation. 		

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Autumn 2	Measurement: Length and Perimeter 2 weeks		Number: Multiplication and division 3 weeks			Consolidation & assessment week 2 weeks
	<ul style="list-style-type: none"> • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. • Convert between different units of measure [for example, kilometre to metre]. 		<ul style="list-style-type: none"> • Recall and use multiplication and division facts for multiplication tables up to 12×12 (strategies for working out times tables e.g. double 4 lots to find 8 lots). • Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers. • Recognise and use factor pairs and commutativity in mental calculations. • Multiply 2 & 3 digit numbers by a single digit including using the formal written method. • Divide a 2 & 3 digit numbers by a single digit including using the formal written method. 			<ul style="list-style-type: none"> • Address gaps from gap analysis.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Spring 1	Number: Multiplication and Division 3 weeks			Measurement: Area 1 week	Number: Fractions 2 weeks	
	<ul style="list-style-type: none"> Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. 			<ul style="list-style-type: none"> Length and Perimeter Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. Convert between different units of measure [for example, kilometre to metre]. 	<ul style="list-style-type: none"> Recognise and show, using diagrams, families of common equivalent fractions. Add and subtract fractions with the same denominator. 	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Spring 2	Number: Fractions 2 weeks		Number: Decimals 3 weeks			Consolidation & assessment week 1 week
	<ul style="list-style-type: none"> Count up and down in hundredths Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number. 		<ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths. Compare numbers with the same number of decimal places up to two decimal places. Round decimals with one decimal place to the nearest whole number. Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths. 			<ul style="list-style-type: none"> Address gaps from gap analysis.

	Week 1	Week 2	Week 3	Week 4	Week 5
Summer 1	Number: Decimals 2 weeks		Measurement: Money 2 weeks		Consolidation & assessment week 1 week
	<ul style="list-style-type: none"> Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$. Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths. Solve simple measure and money problems involving fractions and decimals to two decimal places. Convert between different units of measure [for example, kilometre to metre]. 		<ul style="list-style-type: none"> Estimate, compare and calculate different measures, including money in pounds and pence. Solve simple measure and money problems involving fractions and decimals to two decimal places. 		Address gaps from gap analysis.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Summer 2	Measurement: Time 2 weeks		Measurement: Statistics 1 weeks	Geometry: Properties of Shape 2 weeks		Geometry: Position and direction 2 weeks	
	<ul style="list-style-type: none"> Convert between different units of measure [for example, kilometre to metre; hour to minute]. Read, write and convert time between analogue and digital 12 and 24-hour clocks. Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. 		<ul style="list-style-type: none"> Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. 	<ul style="list-style-type: none"> Identify acute and obtuse angles and compare and order angles up to two right angles by size. Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. Identify lines of symmetry in 2-D shapes presented in different orientations. Complete a simple symmetric figure with respect to a specific line of symmetry. 		<ul style="list-style-type: none"> Describe positions on a 2-D grid as coordinates in the first quadrant. Plot specified points and draw sides to complete a given polygon. Describe movements between positions as translations of a given unit to the left/ right and up/ down. 	