Year 3: 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 3

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	**Place Value** 3 weeks			**Number: Addition and Subtraction** 4 weeks			
	• Identify, represent and estimate numbers using different representations. • Read and write numbers up to 1000 in numerals and in words. • Find 10 or 100 more or less than a given number Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). • Compare and order numbers up to 1000. • Solve number problems and practical problems involving these ideas. Count from 0 in multiples of 4, 8, 50 and 100.			• Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three digit number and hundreds. • Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. • Estimate the answer to a calculation and use inverse operations to check answers. • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.			

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 2	**Number: Addition and Subtraction** 1 week	**Number: Multiplication and division** 4 weeks				**Consolidation & assessment week** 2 weeks	
	• Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	• Count from 0 in multiples of 4, 8, 50 and 100. • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. • Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. • Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which *n* objects are connected to *m* objectives.					

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Spring 1	**Number: Multiplication and Division** 3 weeks			**Measurement: money** 1 week	**Statistics** 2 weeks	
	• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. • Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. • Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which *n* objects are connected to *m* objectives.			• Add and subtract amounts of money to give change, using both £ and p in practical contexts.	• Interpret and present data using bar charts, pictograms and tables. • Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Spring 2	**Measurement: Length and Perimeter** 2 weeks		**Number: Fractions** 3 weeks			**Consolidation & assessment week** 1 week
	• Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). • Measure the perimeter of simple 2D shapes. • Measure the perimeter of simple 2D shapes.		• Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. • Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. • Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. • Solve problems that involve all of the above.			

	Week 1	Week 2	Week 3	Week 4	Week 5
Summer 1	**Number: Fractions** 3 weeks			**Measurement: Time** **Including assessment week** 2 weeks	
	• Recognise and show, using diagrams, equivalent fractions with small denominators. • Compare and order unit fractions, and fractions with the same denominators. • Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]. • Solve problems that involve all of the above.			• Tell and write the time from an analogue clock, including using Roman numerals from I to XII and 12-hour and 24-hour clocks. • Estimate and read time with increasing accuracy to the nearest minute. Record and compare time in terms of seconds, minutes and hours. • Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. • Know the number of seconds in a minute and the number of days in each month, year and leap year. • Compare durations of events [for example to calculate the time taken by particular events or tasks].	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Summer 2	**Geometry: Properties of Shape** 2 weeks		**Measurement: Mass and Capacity** 3 weeks				**Consolidation & assessment week** 2 weeks
	• Recognise angles as a property of shape or a description of a turn. • Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn. • Identify whether angles are greater than or less than a right angle. • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. • Draw 2-D shapes and make 3-D shapes using modelling materials. • Recognise 3-D shapes in different orientations and describe them.		• Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).				