

Maths Year One	
Topic/Step	Curriculum Link and Ideas
Action Plan	<ul> <li>Measurement – Children could think about their actions and the length of time they will take using the language below.</li> <li>Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening].</li> <li>Recognise and use language relating to dates, including days of the week, weeks, months and years.</li> </ul>
<b>Biodiversity</b>	<ul> <li>Number – Children could count the number of Insects, animals or plants they can find in your school grounds.</li> <li>Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.</li> </ul>
Litter	<ul> <li>Number and Place Value – Children could count the amount of litter found within their school grounds.</li> <li>Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.</li> <li>Measurement – Children could weigh the amount of litter they collect during a litter-pick.</li> <li>Compare, describe and solve practical problems for: Mass/weight [for example, heavy/light, heavier than, lighter than].</li> <li>Measure and begin to record the following: mass/weight.</li> </ul>
Transport	<ul> <li><u>Measurement – Children could think about how long it takes to commute to school using the language below.</u></li> <li>Compare, describe and solve practical problems for: time (for example, quicker, slower, earlier, later).</li> <li>Measure and begin to record the following: time (hours, minutes, seconds).</li> </ul>
Waste	<ul> <li>Measurement – Children could weigh how much recycling, compost etc. the school produces and record on Eco-Board.</li> <li>Compare, describe and solve practical problems for: Mass/weight [for example, heavy/light, heavier than, lighter than].</li> <li>Measure and begin to record the following: mass/weight.</li> </ul>
Water	<ul> <li>Measurement – Children could estimate how much they need to fill their reusable water bottles.</li> <li>Compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less than, half, half full, quarter].</li> <li>Measure and begin to record the following: capacity and volume.</li> </ul>
Maths Year Two	
Action Plan	<ul> <li>Measurement – Children could think about how long each action will take?</li> <li>Compare and sequence intervals of time.</li> </ul>
Monitoring and Evaluation	<ul> <li>Statistics – children could monitor their actions and interpret the data using pictograms, tally charts etc.</li> <li>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.</li> <li>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</li> </ul>
	Ask and answer questions about totalling and comparing categorical data.



Biodiversity	Number and Place Value- Children could count the number of Insects, animals or plants they can find in your school
	<u>grounds.</u>
	<ul> <li>Read and write numbers to at least 100 in numerals and in words.</li> <li>Statistics - Children could create tally charts, pictograms atc. for amount of plants, animals or inspects in the school grounds.</li> </ul>
	or local area
	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables
	<ul> <li>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by</li> </ul>
	auantity.
	<ul> <li>Ask and answer questions about totalling and comparing categorical data.</li> </ul>
	Measurement – Children could monitor the temperature in classrooms in order to save energy.
Energy	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass
	(kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and
	measuring vessels.
Littor	Number and Place Value - Children could count the amount of litter found within their school grounds.
LILLEI	Read and write numbers to at least 100 in numerals and in words.
	Measurement - Children could weigh the amount of litter they collect during a litter-pick.
	• Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass
	(Kg/g); temperature (°C); capacity (litres/mi) to the nearest appropriate unit, using rulers, scales, thermometers and
	measuring vessels.
	<ul> <li>Compare and order rengins, mass, volume/capacity and record the results using &gt;, &lt; and =.</li> <li>Measurement — children could think about the amount of time it takes to commute to school using various forms of transport.</li> </ul>
Transport	Compare and sequence intervals of time
-	Statistics – Children could create nictograms, tally charts etc. recording the different ways pupils commute to school
	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables
	<ul> <li>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by</li> </ul>
	quantity.
	Ask and answer questions about totalling and comparing categorical data.
Meete	Measurement - Children could weigh how much recycling, compost etc. they produce and record on Eco-Board.
waste	<ul> <li>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass</li> </ul>
	(kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and
	measuring vessels.
	<ul> <li>Compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =.</li> </ul>
	Statistics – Children could record how much recycling, compost etc. they produce using pictograms, tally charts etc.
	<ul> <li>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.</li> </ul>
	Ask and answer simple questions by counting the number of objects in each category and sorting the categories by
	quantity.
	Ask and answer questions about totalling and comparing categorical data.



Water	<ul> <li>Measurement – Children could measure how much water is used per flush of a toilet or through leaving the tap on too long and think about how they could reduce water usage.</li> <li>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and</li> </ul>
	measuring vessels.
	<ul> <li>Compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =.</li> </ul>
	Maths Year Three
Action Plan	<ul> <li>Measurement – Children could think about how long each of their actions will take.</li> <li>Compare durations of events [for example to calculate the time taken by particular events or tasks].</li> </ul>
<b>Monitoring and</b>	<ul> <li>Measurement – Children could work out statistics for the amount of money saved through participation in Eco-Schools.</li> <li>Add and subtract amounts of money to give change, using both £ and p in practical contexts.</li> </ul>
Evaluation	<ul> <li><u>Statistics – Children could use bar charts, pictograms and tables to show the impact of their actions.</u></li> <li>Interpret and present data using bar charts, pictograms and tables.</li> </ul>
	• 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.
Biodiversity	<ul> <li><u>Statistics – Children could count animals, plants or insects in the school grounds and represent the data using bar charts, pictograms or tables.</u></li> <li>Interpret and present data using bar charts, pictograms and tables.</li> </ul>
	<ul> <li>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.</li> </ul>
Litter	<ul> <li>Measurement – Children could measure the amount of litter collected during a litter-pick.</li> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> <li>Statistics – Children could record the different types of litter found during a litter-pick using bar charts, pictograms and tables.</li> </ul>
	<ul> <li>Interpret and present data using bar charts, pictograms and tables.</li> <li>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.</li> </ul>
School	<ul> <li>Measurement – Children could create rectangular planters in the school grounds focusing on their perimeter.</li> <li>Measure the perimeter of simple 2-D shapes.</li> </ul>
Grounds	
Transport	<ul> <li>Measurement – Children could compare how long it takes to commute to school using different modes of transport.</li> <li>Compare durations of events [for example to calculate the time taken by particular events or tasks].</li> <li>Statistics – Children could present data of the different ways children commute to school.</li> </ul>
	<ul> <li>Interpret and present data using bar charts, pictograms and tables.</li> <li>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.</li> </ul>



Waste	Measurement – Children could measure the weight of recycling, compost etc.
	<ul> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul>
	Statistics – Children could present data about the amount of school waste that goes to landfill before and after an action.
	<ul> <li>Interpret and present data using bar charts, pictograms and tables.</li> </ul>
	<ul> <li>Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information</li> </ul>
	presented in scaled bar charts and pictograms and tables.
Water	Measurement – children could work out the amount of water wasted in school e.g. excessive toilet flushes, leaving the tap
water	on too long before and after an action.
	<ul> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul>
	Maths Year Four
	Measurement – Children could decide on the duration of actions in their Action Plan.
Action Plan	<ul> <li>Convert between different units of measure [for example, kilometre to metre; hour to minute].</li> </ul>
	<ul> <li>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</li> </ul>
	Statistics – Children could present before and after data using bar charts and graphs.
monitoring and	<ul> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and</li> </ul>
Evoluction	time graphs.
Evaluation	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and
	other graphs.
Piediversity	Statistics – children could record biodiversity in school grounds before and after an action using appropriate graphical
Biodiversity	methods.
	<ul> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and</li> </ul>
	time graphs.
	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and
	other graphs.
Littor	Geometry – children could plot the location of bins in the school grounds.
LILLEI	<ul> <li>Describe positions on a 2-D grid as coordinates in the first quadrant.</li> </ul>
	Statistics – Children could compare the amount of litter in the school grounds before and after an action using appropriate
	graphical methods.
	<ul> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and</li> </ul>
	time graphs.
	<ul> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and</li> </ul>
	other graphs.
School	Measurement – children could create planters for the school focusing on their shape and perimeter.
	<ul> <li>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.</li> </ul>
Grounds	



Interpret         Iong the commute is using different methods of transport.           • Convert between different units of measure (for example, kilometre to metre; hour to minute).         Statistics - Children could collect data on how pupils commute to school and present it 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.           • Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.           • Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.           • 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.           • Solve comparison, sum and difference problems using information presented in a line graph.           • Complete, read and interpret information in tables, including timetables.           Biodiversity         Statistics - Children could present data from before and after an action and insects in the school grounds before and after an action and consider the impact of their actions.           • Solve comparison, sum and difference problems using information presented in a line graph.           • Complete, read and interpret information in tables, including timetables.           Biodiversity         • Solve comparis	Transport	Measurement – Children could measure their journeys to school in kilometres, metres, hours and minutes comparing how	
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other graphs.         Maths Year Five           Monitoring and Evaluation         Statistics - Children could present data from before and after an action and consider the impact of their actions. • Solve comparison, sum and difference problems using information presented in a line graph. • Complete, read and interpret information in tables, including timetables.           Biodiversity         Statistics - Children could record the amount of plants, animals and insects in the school grounds before and after an action and consider the impact of their actions. • Solve comparison, sum and difference problems using information presented in a line graph. • Complete, read and interpret information in tables, including timetables.           Litter         Measurement - Children could present the amount of plants, animals and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).         Measurement - Children could measure the amount of plants, animals and interpret information presented in a line graph. • Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).           • Use all four operations to solve problems using information presented in a line graph. • Complete, read and interpret information in tables, including timetables.           School         Measurement - Children could present the data collected on a litter-pick and consider the impact of their actions. • Solve comparison, sum and difference problems using information presented in a line graph. • Complete, read and interpret information in tables, including timetables.           School         Measure and calculate the perimeter of composite rectilinear		Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and	
Monitoring and Evaluation         Statistics – Children could present data from before and after an action and consider the impact of their actions.           Biodiversity         Statistics – Children could record the amount of plants, animals and insects in the school grounds before and after an action and consider the impact of their actions.           Biodiversity         Statistics – Children could record the amount of plants, animals and insects in the school grounds before and after an action and consider the impact of their actions.           Solve comparison, sum and difference problems using information presented in a line graph.         Complete, read and interpret information in tables, including timetables.           Litter         Measurement – Children could measure the amount of litter collected during a litter-pick in different units.           • Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitte).           • Use all four operations to solve problems involving measure [for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitte).           • Use all four operations to solve problems using information presented in a line graph.           • Complete, read and interpret information in tables, including timetables.           Statistics – Children could create planters in the school grounds with a focus on perimeter and metre; centimetre and metre; complete, read and interpret information in tables, including timetables.           School         Measure and calculate the perimeter of composite rectilinear s		other graphs.	
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Evaluation       • Complete, read and interpret information in tables, including timetables.         Biodiversity       Statistics – Children could record the amount of plants, animals and insects in the school grounds before and after an action and consider the impact of their actions.         Ititter       • Solve comparison, sum and difference problems using information presented in a line graph.         • Complete, read and interpret information in tables, including timetables.         Ititter       Measurement – Children could measure the amount of litter collected during a litter-pick in different units.         • Convert between different units of metric measure (for example, kilometre and metre; centimetre and millimitre; gram and kilogram; litre and millilitre).       • Use all four operations to solve problems using information presented in a line graph.         • Complete, read and interpret information in tables, including scaling.       Statistics – Children could present the data collected on a litter-pick and consider the impact of their actions.         • Solve comparison, sum and difference problems using information presented in a line graph.       • Complete, read and interpret information in tables, including timetables.         • Solve comparison, sum and difference problems using information presented in a line graph.       • Complete, read and interpret information in tables including timetables.         • Solve comparison, sum and difference problems using information presented in a line graph.       • Complete, read and interpret information in tables, including timetables.         • Complete, read and interpret informati	monitoring and	<ul> <li>Solve comparison, sum and difference problems using information presented in a line graph.</li> </ul>	
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School       Measurement – Children could create planters in the school grounds with a focus on perimeter and area.         Grounds       Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.         Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes.         Transport       Measurement – Children could use different units to measure their commutes to school and compare their length of commute using different modes of transport.		<ul> <li>Complete, read and interpret information in tables, including timetables.</li> </ul>	
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Grounds       • Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes.         Transport       Measurement – Children could use different units to measure their commutes to school and compare their length of commute using different modes of transport.	School	<ul> <li>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.</li> </ul>	
Transport         Measurement – Children could use different units to measure their commutes to school and compare their length of commute using different modes of transport.	Grounds	<ul> <li>Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes.</li> </ul>	
commute using different modes of transport.	Transport	Measurement – Children could use different units to measure their commutes to school and compare their length of	
		commute using different modes of transport.	

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	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre;
	centimetre and millimetre; gram and kilogram; litre and millilitre).
	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using
	decimal notation, including scaling.
	Statistics – Children could present data on the way children commute to school.
	Solve comparison, sum and difference problems using information presented in a line graph.
	<ul> <li>Complete, read and interpret information in tables, including timetables.</li> </ul>
	Measurement – Children could measure and compare how much waste gets composted, recycled or goes to landfill using
waste	different units of measurement.
	<ul> <li>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre;</li> </ul>
	centimetre and millimetre; gram and kilogram; litre and millilitre).
	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using
	decimal notation including scaling
	Statistics – Children could present data about the amount of school waste that goes to landfill
	Solve comparison, sum and difference problems using information presented in a line graph
	<ul> <li>Complete, read and interpret information in tables, including timetables.</li> </ul>
	Measurement – Children could estimate and measure how much water is wasted in school.
water	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre;
	centimetre and millimetre; gram and kilogram; litre and millilitre).
	• Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example,
	using water].
Maths Year Six	
	Ratio and Proportion – children could convert monitoring and evaluation information into percentages.
monitoring and	• Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and
Evaluation	the use of percentages for comparison.
	Statistics – Children could present monitoring information as pie charts and line graphs and work out the impact of their
	actions using the mean as an average.
	<ul> <li>Interpret and construct pie charts and line graphs and use these to solve problems.</li> </ul>
	Calculate and interpret the mean as an average.
Biodiversity	Statistics – Children could collect data on plants, animals and insects in the school grounds and present the data as a pie
	chart or line graph.
	Interpret and construct pie charts and line graphs and use these to solve problems.
Litter	weasurement – Unidren could measure the amount of litter collected on a litter-pick using different units of measurement.
	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time     from a smaller unit of measure to a larger unit, and vice verse, using desimal potential to up to three desimal places.
	nom a smaller unit or measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.



	Statistics – Children could present information on litter collected on a litter-pick using a pie chart.
	<ul> <li>Interpret and construct pie charts and line graphs and use these to solve problems.</li> </ul>
School	Measurement – Children could create planters for school grounds considering the area and volume of soil required.
	<ul> <li>Recognise that shapes with the same areas can have different perimeters and vice versa.</li> </ul>
Grounde	<ul> <li>Recognise when it is possible to use formulae for area and volume of shapes.</li> </ul>
Grounus	Geometry: Positon and Direction – Children could plan actions in school grounds using a grid.
	<ul> <li>Describe positions on the full coordinate grid (all four quadrants).</li> </ul>
	Measurement – Children could measure distance to school converting between miles and kilometres.
Transport	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time
	from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.
	Convert between miles and kilometres.
	Statistics – Children could present data on how pupils commute to school using pie charts and line graphs.
	<ul> <li>Interpret and construct pie charts and line graphs and use these to solve problems.</li> </ul>
	Ratio and Proportion – Children could calculate the amount of waste being recycled, composted or ending in landfills using
waste	percentages.
	<ul> <li>Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and</li> </ul>
	the use of percentages for comparison.
	Measurement – Children could calculate the amount of waste being recycled, composted or ending in landfills using different
	units of measurement.
	<ul> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time</li> </ul>
	from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.
	Statistics – Children could present data on waste their school produces using pie charts and line graphs.
	<ul> <li>Interpret and construct pie charts and line graphs and use these to solve problems.</li> </ul>
Water	Measurement – Children could estimate and measure the volume of water wasted in school.
	<ul> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time</li> </ul>
	from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.

