

Maths Progression Document - East Stour Primary

Measurement

COMPARING AND ESTIMATING						
Eyfs	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
MEASURE VOCABULARY						
measure size compare guess, estimate enough, not enough too much, too little, too many, too few, nearly, close to, about the same as just over, just under	measure measurement size compare guess, estimate enough, not enough too much, too little too many, too few nearly, close to, about the same as roughly just over, just under	measure measurement size compare measuring scale quarter full holds, contains container	measure measurement size compare measuring scale, division guess, estimate enough, not enough too much, too little too many, too few nearly, close to, about the same as, approximately roughly just over, just under	measure measurement size compare, unit, standard unit metric unit measuring scale, division, guess, estimate enough, not enough too much, too little too many, too few nearly, close to, about the same as, approximately roughly, just over, just under holds, contains container, measuring cylinder	measure measurement size compare unit, standard unit metric unit, imperial unit measuring scale, division guess, estimate enough, not enough too much, too little volume, full, empty more than, less than half full, quarter full holds, contains container, measuring cylinder pint gallon	measure measurement size compare unit, standard unit metric unit, imperial unit measuring scale, division guess, estimate enough, not enough too much, too little too many, too few nearly, close to, about the same as, full, empty, more than, less than half full, quarter full, holds, contains container, measuring cylinder pint, gallon

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WEIGHT VOCABULARY

weigh, weighs, balances heavy, light heavier than, lighter than heaviest, lightest scales	kilogram, half kilogram weigh, weighs, balances heavy, light heavier than, lighter than heaviest, lightest scales	kilogram, half kilogram, gram weigh, weighs, balances heavy, light heavier than, lighter than heaviest, lightest scales	kilogram, half kilogram, gram weigh, weighs, balances heavy, light heavier than, lighter than heaviest, lightest scales	mass: big, bigger, small, smaller weight: heavy/light, heavier/lighter, heaviest/lightest kilogram, half kilogram, gram weigh, weighs, balances heavy, light heavier than, lighter than heaviest, lightest scales	mass: big, bigger, small, smaller weight: heavy/light, heavier/lighter, heaviest/lightest kilogram, half kilogram, gram weigh, weighs, balances heavy, light heavier than, lighter than heaviest, lightest scales	mass: big, bigger, small, smaller weight: heavy/light, heavier/lighter, heaviest/lightest tonne, kilogram, half kilogram, gram, pound, ounce weigh, weighs, balances heavy, light heavier than, lighter than heaviest, lightest scales
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CAPACITY AND VOLUME VOCABULARY

full empty half full holds container	litre, half litre capacity volume full empty more than less than	litre, half litre, millilitre capacity volume full empty more than less than half full	litre, half litre, millilitre, centilitre cubic centimetres(cm ³), cubic metres (m ³)			
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	half full quarter full holds container	less than half full quarter full holds, contains container	half full quarter full holds, contains container	half full quarter full holds, contains container, measuring cylinder	quarter full holds, contains container, measuring cylinder pint, gallon), cubic millimetres (mm ³), cubic kilometres (km ³) capacity volume full empty more than less than half full quarter full holds, contains container, measuring cylinder pint, gallon
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Children use everyday language to talk about size, weight, capacity, distance, time and money to compare quantities and objects and to solve problems	compare, describe and solve practical problems for: * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] * mass/weight [e.g. heavy/light, heavier than, lighter than]	compare and order lengths, mass, volume/capacity and record the results using >, < and =		estimate, compare and calculate different measures, including money in pounds and pence (also included in Measuring)	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes (also included in measuring)	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm ³) and cubic metres (m ³), and extending to other units such as mm ³ and km ³ .

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	<ul style="list-style-type: none"> * capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter] * time [e.g. quicker, slower, earlier, later] 				estimate volume (e.g. using 1 cm ³ blocks to build cubes and cuboids) and capacity (e.g. using water)	
	sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	compare and sequence intervals of time	compare durations of events, for example to calculate the time taken by particular events or tasks			
			estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Telling the Time)			
LENGTHS VOCABULARY						

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<p>metre length, height, width, depth long, short, tall high, low wide, narrow thick, thin longer, shorter, taller, higher ... and so on longest, shortest, tallest, highest ... and so on far, near, close</p>	<p>centimetre, metre length, height, width, depth long, short, tall high, low wide, narrow thick, thin longer, shorter, taller, higher ... and so on longest, shortest, tallest, highest ... and so on far, near, close ruler metre stick</p>	<p>centimetre, metre length, height, width, depth long, short, tall high, low wide, narrow thick, thin longer, shorter, taller, higher ... and so on longest, shortest, tallest, highest ... and so on far, further, furthest, near, close ruler metre stick, tape measure</p>	<p>millimetre, centimetre, metre, kilometre, mile length, height, width, depth long, short, tall high, low wide, narrow thick, thin longer, shorter, taller, higher ... and so on longest, shortest, tallest, highest ... and so on far, further, furthest, near, close distance apart ... between ... to ... from edge, perimeter area, covers square centimetre (cm²) ruler metre stick, tape measure</p>	<p>millimetre, centimetre, metre, kilometre, mile length, height, width, depth, breadth long, short, tall high, low wide, narrow thick, thin longer, shorter, taller, higher ... and so on longest, shortest, tallest, highest ... and so on far, further, furthest, near, close distance apart ... between ... to ... from edge, perimeter area, covers square centimetre (cm²) ruler metre stick, tape measure</p>	<p>centimetre, metre, kilometre, mile length, height, width, depth, breadth lo millimetre, centimetre, metre, kilometre, mile length, height, width, depth, breadth long, short, tall high, low wide, narrow thick, thin longer, shorter, taller, higher ... and so on longest, shortest, tallest, highest ... and so on far, further, furthest, near, close distance apart ... between ... to ... from edge, perimeter, circumference area, covers square centimetre (cm²), square metre (m²), square millimetre (mm²) ruler metre stick, tape measure</p>	<p>centimetre, metre, millimetre, kilometre, mile, yard, foot, feet, inch, inches length, height, width, depth, breadth long, short, tall high, low wide, narrow thick, thin longer, shorter, taller, higher ... and so on longest, shortest, tallest, highest ... and so on far, further, furthest, near, close distance apart ... between ... to ... from edge, perimeter, circumference area, covers square centimetre (cm²), square metre (m²), square millimetre (mm²) ruler metre stick, tape measure</p>
MEASURING and CALCULATING						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	

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	<p>measure and begin to record the following:</p> <ul style="list-style-type: none"> * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds) 	<p>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</p>	<p>measure, compare, add and subtract:</p> <p>lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</p>	<p>estimate, compare and calculate different measures, including money in pounds and pence (appears also in Comparing)</p>	<p>use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.</p>	<p>solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Converting)</p>
			<p>measure the perimeter of simple 2-D shapes</p>	<p>measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</p>	<p>measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</p>	<p>recognise that shapes with the same areas can have different perimeters and vice versa</p>

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MONEY VOCABULARY						
money coin penny, pence, pound price, cost buy, sell spend, spent	Money, coin penny, pence, pound, price, cost, buy, sell spend, spent pay, change, costs more, cheap, costs less, cheaper, costs the same as how much ...? how many ...? total	Money, coin, penny, pence, pound, price, cost buy, bought, sell, sold, spend, spent, pay, change dear, costs more cheap, costs less, cheaper costs the same as how much ...? how many ...? total	Money, coin, penny, pence, pound, price, cost buy, bought, sell, sold spend, spent, pay change, costs more cheap, costs less, cheaper costs the same as how much ...? how many ...? total	Money coin penny, pence, pound price, cost buy, bought, sell, sold spend, spent pay change, costs more, cheap, costs less, cheaper, costs the same as how much ...? how many	Money coin penny, pence, pound price, cost buy, bought, sell, sold spend, spent pay change, costs more cheap, costs less, cheaper costs the same as how much ...? how many ...? total discount	Money coin penny, pence, pound price, cost buy, bought, sell, sold spend, spent pay change dear, costs more, cheap, costs less, cheaper costs the same as how much ...? how many ...? total discount currency, profit loss
MEASURING and CALCULATING						
Eyfs	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	recognise and know the value of different denominations of coins and notes	recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value	add and subtract amounts of money to give change, using both £ and p in practical contexts			
		find different combinations of coins that equal the same amounts of money				

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		<p>solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</p>				
				<p>find the area of rectilinear shapes by counting squares</p>	<p>calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes</p> <p><i>recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)</i> (copied from Multiplication and Division)</p>	<p>calculate the area of parallelograms and triangles</p> <p>calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [e.g. mm³ and km³].</p> <p>recognise when it is possible to use formulae for area and volume of shapes</p>

TIME VOCABULARY

<p>Time, days of the week, Monday, Tuesday ...day, week, birthday, holiday, morning, afternoon, evening, night, bedtime,</p>	<p>Time, days of the week, Monday, Tuesday ... months of the year (January, February ...)</p>	<p>Time, days of the week, Monday, Tuesday ... months of the year (January, February ...)</p>	<p>Time, days of the week, Monday, Tuesday ... months of the year (January, February ...)</p>	<p>Time, days of the week, Monday, Tuesday ... months of the year (January, February ...) seasons: spring, summer, autumn,</p>	<p>Time, days of the week, Monday, Tuesday ... months of the year (January, February ...)</p>	<p>Time, days of the week, Monday, Tuesday ... months of the year (January, February ...)</p>
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<p>dinner time, playtime, today, yesterday, tomorrow, before, after, next, last now, soon, early, late, quick, quicker, quickest, quickly slow, slower, slowest, slowly old, older, oldest new, newer, newest takes longer, takes less time hour, o'clock clock, watch, hands</p>	<p>seasons: spring, summer, autumn, winter day, week, weekend, month, year birthday, holiday morning, afternoon, evening, night bedtime, dinner time, playtime today, yesterday, tomorrow before, after earlier, later next, first, last midnight date now, soon, early, late quick, quicker, quickest, quickly slow, slower, slowest, slowly old, older, oldest new, newer, newest takes longer, takes less time how long ago? how long will it be to ...? how long will it take to ...? how often?</p>	<p>seasons: spring, summer, autumn, winter day, week, weekend, fortnight, month, year birthday, holiday morning, afternoon, evening, night bedtime, dinnertime, playtime today, yesterday, tomorrow before, after earlier, later next, first, last midnight date now, soon, early, late quick, quicker, quickest, quickly slow, slower, slowest, slowly old, older, oldest new, newer, newest takes longer, takes less time how long ago? how long will it be to ...? how long will it take to ...? how often?</p>	<p>seasons: spring, summer, autumn, winter day, week, weekend, fortnight, month, year, century birthday, holiday morning, afternoon, evening, night bedtime, dinner time, playtime today, yesterday, tomorrow before, after earlier, later next, first, last earlier, later next, first, last midnight calendar, date now, soon, early, late, earliest, latest quick, quicker, quickest, quickly slow, slower, slowest, slowly old, older, oldest new, newer, newest takes longer, takes less time new, newer, newest takes longer, takes less time how long ago? how long will it be to ...? how long will it take to ...?</p>	<p>winter, week, weekend, fortnight, month, year, leap year, century, millennium birthday, holiday morning, afternoon, evening, night bedtime, dinner time, playtime today, yesterday, tomorrow before, after earlier, later next, first, last noon, midnight calendar, date, date of birth now, soon, early, late, earliest, latest quick, quicker, quickest, quickly slow, slower, slowest, slowly old, older, oldest new, newer, newest takes longer, takes less time how long ago? how long will it be to ...? how long will it take to ...?</p>	<p>seasons: spring, summer, autumn, winter day, week, weekend, fortnight, month, year, leap year, century, millennium birthday, holiday morning, afternoon, evening, night bedtime, dinner time, playtime today, yesterday, tomorrow before, after earlier, later next, first, last noon, midnight calendar, date, date of birth now, soon, early, late, earliest, latest quick, quicker, quickest, quickly slow, slower, slowest, slowly old, older, oldest new, newer, newest takes longer, takes less time old, older, oldest new, newer, newest takes longer, takes less time how long ago? how long will it be to ...?</p>	<p>seasons: spring, summer, autumn, winter day, week, weekend, fortnight, month, year, leap year, century, millennium birthday, holiday morning, afternoon, evening, night bedtime, dinner time, playtime today, yesterday, tomorrow, before, after, earlier, later, next, first, last, noon, midnight, calendar, date, date of birth, now, soon, early, late, earliest, latest quick, quicker, quickest, quickly slow, slower, slowest, slowly old, older, oldest new, newer, newest takes longer, takes less time how long ago? how long will it be to ...?</p>
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	always, never, often, sometimes	always, never, often, sometimes usually once, twice hour, o'clock, half past, quarter past, quarter to 5, 10, 15 ... minutes past		how often? always, never, often, sometimes usually once, twice hour, o'clock, half past, quarter past, quarter to		how long will it take to ...?
TELLING THE TIME						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks	read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)		
	recognise and use language relating to dates, including days of the week, weeks, months and years	know the number of minutes in an hour and the number of hours in a day. (appears also in Converting)	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Comparing and Estimating)			

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				solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Converting)	solve problems involving converting between units of time	
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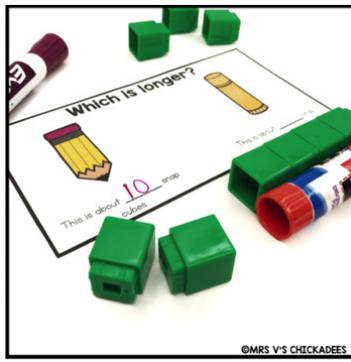
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CONVERTING					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time)	know the number of seconds in a minute and the number of days in each month, year and leap year	convert between different units of measure (e.g. kilometre to metre; hour to minute)	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	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
			read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)	solve problems involving converting between units of time	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Measuring and Calculating)
			solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Telling the Time)	understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	convert between miles and kilometres

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