

Heasures: Concept breakdown

	Reception -	→ Year 1 - •	► Year 2 =	► Year 3 =	► Year 4 =	► Year 5 =	Year 6	
Compare, measure and calculate (length and area; mass/weight; volume and capacity; temperature)								
Estimate, compare and describe measures	Use everyday language to compare length, mass/weight and capacity. <u>Unit 5</u> <u>Unit 18</u>	Compare, describe and solve practical problems for: • Lengths and heights • Mass/weight • Capacity/volume Unit 11 Unit 16	Compare and order lengths, mass, volume/capacity and record the results using >,< and = <u>Unit 4</u> (length) <u>Unit 13</u> (capacity) <u>Unit 14</u> (mass)	Compare lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) Pupils estimate units of measure Unit 11	Estimate, compare and calculate different measures, including money in pounds and pence <u>Unit 10</u>	Estimate volume [for example, using 1 cm ³ blocks to build cuboids (including cubes)] and capacity [for example, using water] <u>Unit 13</u>	Calculate, estimate and	
Measure and read scales		 Measure and begin to record the following: Lengths and heights Mass/weight Capacity/volume Pupils initially use non-standard units e.g. hands and progress to explore the concepts of 1 meter and 1 kilogram Unit 11 Unit 16	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 Unit 4 (length) Unit 13 (capacity) Unit 14 (mass)	Measure, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/ capacity (l/ml) Pupils develop confidence in estimating measures in standard units and begin to use mixed measures e.g. 1 kg and 200g Unit 5 Unit 11	Continue to choose appropriate units of measurement, read scales and calculate with measure in Maths Meetings	Continue to choose appropriate units of measurement, read scales and calculate with measure in Maths Meetings	cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units [for example, mm ³ and km ³] <u>Unit 6</u>	
Measure and calculate: Perimeter and area				Measure the perimeter of simple 2-D shapes Unit 5	Measure and calculate the perimeter of a rectilinear figure in cm/m (including squares) Find the area of rectilinear shapes by counting squares Pupils begin to explore calculting the areas of rectangles in preparation for Year 4.	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm ²) and square metres (m ²), and estimate the area of irregular shapes	Recognise that shapes with the same areas can have different perimeters and vice versa Recognise when it is possible to use formulae for area and volume of shapes Calculate the area of parallelograms and triangles Unit 6	



$\frac{1}{2} \times ^{-}$ Measures: Concept breakdown

	Reception -	Year 1	-	Year 2	► Year 3 =	Year 4 -	Year 5	Year 6		
Compare measure and calculate (length and area; mass/weight; volume and capacity; temperature)										
Applying to problems in context			So in a inv sul of inc cha pro len vol Un Un vol Un	lve simple problems a practical context rolving addition and btraction of money the same unit, cluding giving ange pils solve word oblems that involve gth capacity and ume it 4 (length) it 10 (money) it 13 (capacity and ume) it 14 (mass)	Pupils solve addition, subtraction, multiplication and division problems in context Unit 11	Pupils apply knowledge of units of measure to plan and solve problems in context Unit 10	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling <u>Unit 11</u>	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate Unit 6		
	Converting									
Converting metric units		Whilst exploring measures throughout KS1 and Year 3 pupils should become familiar with simple equivalents, e.g. 1 $m = 100$ cm, 1 kg = 1000kg etc to prepare them for conversion problems in Year 4.			Convert between different units of measure [for example, kilometre to metre; hour to minute] <u>Unit 10</u>	Convert between different units of metric measure Understand and use approximate equivalences between metric units and common imperial units Unit 10	Convert between miles and kilometres Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate <u>Unit 6</u>			
Converting units of time			Kn min the a d <u>Un</u>	ow the number of nutes in an hour and number of hours in lay it 7	Know the number of seconds in a minute and the number of days in each month, year and leap year Unit 8	Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days Unit 7	Solve problems involving converting between units of time <u>Unit 10</u>	See above.		

© Ark Curriculum Plus 2024



Measures: Concept breakdown

	Reception -	Year 1 -	→ Year 2	► Year 3 =	► Year 4 -	Year 5	Year 6	
Time								
Describe and calculate the passage of time		Sequence events in chronological order using language Recognise and use language relating to dates, including days of the week, weeks, months and years <u>Unit 6</u>	Compare and sequence intervals of time <u>Unit 7</u>	Compare durations of events [for example, to calculate the time taken by particular events or tasks] <u>Unit 8</u>	Pupils should continue to	compare durations of events	in Maths Meetings	
Telling the time		Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times <u>Unit 6</u>	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 <u>Unit 7</u>	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, am/pm, morning, afternoon, noon and midnight <u>Unit 8</u> Pupils use both analogue and digital 12- hour clocks and record their times. <u>Unit 8</u>	Read, write and convert time between analogue and digital 12- and 24-hour clocks Unit 7	Pupils should continue to p and converting between 12 their Maths Meetings	practise reading the time 2- and 24-hour clocks in	
Understanding equivalent measures of time			Know the number of minutes in an hour and the number of hours in a day <u>Unit 7</u>	Know the number of seconds in a minute and the number of days in each month, year and leap year <u>Unit 8</u>	Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days <u>Unit 7</u>	Solve problems involving converting between units of time Unit 10	Pupils should continue to convert between units of time in Maths Meetings	

‡ A Measures: Concept breakdown

	Reception	► Year 1 =	► Year 2 =	► Year 3 =	► Year 4 -	Year 5	→ Year 6		
Money									
Recognise coins and notes	Pupils begin to familiar with coins and should explore using them in context through play e.g. class shop <u>Unit 17</u>	Recognise and know the value of different denominations of coins and notes <u>Unit 14</u>	Recognise and use symbols for pounds (£) and pence (p) Unit 10	Pupils consolidate KS1 objec focusing on represent a give different ways in Year 3 and decimals in Year 4.	tives in Maths Meetings, n amount of money in relating to knowledge of				
Calculate using money		Pupils become familiar with adding and subtracting amounts of money <u>Unit 14</u>	Find different combinations of coins that equal the same amounts of money <u>Unit 10</u> Combine amounts to make a particular value <u>Unit 10</u> Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change <u>Unit 10</u>	Add and subtract amounts of money to give change, using both £ and p in practical <u>Unit 1</u>	Estimate, compare and calculate different measures, including money in pounds and pence Unit 10	Pupils continue to reason, calculate and solve problems in the context of money Unit 14	Pupils solve problems involving money and units of measure <u>Unit 6</u>		