



Year 7 : Support Scheme of Work for pupils working at Levels 2 and 3
 Handling Data 3 (4 hours)

Lesson	Learning Objective	Learning Outcomes			Lesson strategies, activities and ideas	Resources
		Must	Should	Could		
1	Find the mode of a simple set of data and from simple charts.	Recognise the mode from a set of data e.g the mode from a set of colours or a set of numbers.	Recognise the mode from a variety of diagrams e.g. bar chart, pie chart	Organise a larger set of data, from which to identify the mode.	<p>Starter : TL4 y7 - lesson D1.4 starter (using the target board)</p> <p>Use ICT to generate simple databases of data and ask pupils to find the mode.</p> <p>Or pupils could throw dice to generate a set of data and they then find the mode.</p> <p>More able pupils may be able to throw 2 dice and record totals.</p> <p>I TP: Handling Data</p> <p>TL4 y7 - lesson D2.1a - pie charts could be used as a resource for finding the mode.</p>	<p>PFWK y456 p. 117</p> <p>TL4 y7 - lesson D1.4 & OHT D1.4a</p> <p>S/ board p. 152</p> <p>TL4 y7 - lesson D2.1a - pie charts could be used as a resource for finding the mode.</p>
2	Find the range of a set of data.	Calculate the range of a small set of unordered numerical data - numbers less than 20	Calculate the range of a set of unordered numerical data - numbers less than 100	Use a calculator when appropriate, to find the range of a set of data given to one decimal place.	<p>Starter : practise simple mental subtractions</p> <p>Main - use sets of data generated in previous lesson to calculate range.</p> <p>Plenary - find mode and range for the same set of data.</p>	<p>PFWK y456 p. 117</p> <p>S/ board p. 153</p>



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3	Begin to find the mean of a set of data	Find the mean of a set of numbers, up to 5 data items. Mean values to be whole numbers.	Find the mean of a set of numbers, up to 10 data items. Mean values to be whole numbers.	Find the mean of a set of numbers, up to 10 data items. Mean values up to 1 or 2 decimal places e.g. money.	<p>Starter : Halving and quartering numbers. <i>Use a calculator where appropriate.</i></p> <p>Main issues will be organising and recording calculations.</p> <p>Plenary : find the mean hand span of the class. Data to the nearest cm. Beware of divisor and need to interpret the answer if given to several decimal places.</p>	
4	Understand and use the probability scale.	Understand that on the probability scale, 0 represents an impossible event and 1 a certainty	Know that evens is 50% or $\frac{1}{2}$	Estimate the position of likely and unlikely events will occur. Be able to work out simple probabilities e.g. if there are 4 beads in a bag, 3 white and 1 black, what is the probability of picking out a black bead.	<p>TL4 y7 – Lesson D 1.1 main activity & Lesson D1.2 main activity, first task</p>	<p>PFWK y456 p. 113</p> <p>TL4 y7 – Lesson D 1.1 OHT D 1.1a, b</p> <p>TL4 y7 – Lesson D1.2</p> <p>S/board p. 254, p. 258&259 (more able)</p>