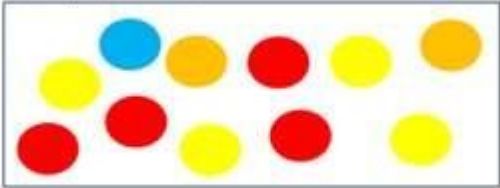


Ideas of chance and uncertainty

Term	Definition	Illustration
Certainty	The probability that an event will 100% definitely occur.	
Chance	<p>The number of times a single event is <i>likely</i> to happen out of a total number of possibilities.</p> <p>For example, there is a 1 in 6 chance of throwing a 3 on a die labelled 1-6, and there is a 1 in 2 chance of throwing an even number.</p>	<p>Examples of chance</p>  <p>There are 11 balls in this box.</p> <p>The chances of pulling out a red ball is 4/11</p> <p>The chances of pulling out a yellow ball is 4/11</p> <p>The chances of pulling out a blue ball is 1/11</p> <p>The chances of pulling out an orange ball is 2/11</p> <p>It could be estimated from the calculated chances that:</p> <ul style="list-style-type: none"> • There is an equal chance of pulling out a red or yellow ball • You are most likely to pick out a red or yellow ball • You are least likely to pick out a blue ball
Consequences	The impact a decision can make on subsequent events.	
Draw conclusions	To make statements about a set of data based on results.	
Event	A single result of an experiment.	

Ideas of chance and uncertainty

Frequency table	<p>A table used to note tally marks and show frequencies of each item.</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3" style="text-align: center;">Number of cars passing the school</th> </tr> <tr> <th style="text-align: left;">Colour</th> <th style="text-align: center;">Tally Marks</th> <th style="text-align: center;">Frequency</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td style="text-align: center;"> </td> <td style="text-align: center;">6</td> </tr> <tr> <td>Silver</td> <td style="text-align: center;"> </td> <td style="text-align: center;">12</td> </tr> <tr> <td>White</td> <td style="text-align: center;"> </td> <td style="text-align: center;">17</td> </tr> <tr> <td>Green</td> <td style="text-align: center;"> </td> <td style="text-align: center;">4</td> </tr> <tr> <td>Blue</td> <td style="text-align: center;"> </td> <td style="text-align: center;">9</td> </tr> <tr> <td>Black</td> <td style="text-align: center;"> </td> <td style="text-align: center;">5</td> </tr> <tr> <td>Gold</td> <td style="text-align: center;"> </td> <td style="text-align: center;">1</td> </tr> </tbody> </table>	Number of cars passing the school			Colour	Tally Marks	Frequency	Red		6	Silver		12	White		17	Green		4	Blue		9	Black		5	Gold		1
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Language of probability	<p>The words used to describe the likelihood or chance of an event happening. Words can include; never, sometimes, always, likely, unlikely, possible, impossible, certain, uncertain, one in ten chance, 50/50 chance etc.</p>																												
Likelihood	<p>The chance that an event will happen.</p>																												
Prediction	<p>An educated guess at future events based on past experiences. e.g. predicting the weather in December.</p>																												
Probability	<p>How likely something is to happen – calculated as the number of times an event actually happened divided by the number of possible events. It may be expressed as a fraction, decimal fraction or percentage.</p>																												
Uncertainty	<p>The probability that an event may not happen.</p>																												