Ideas of chance and uncertainty

Terms	Illustrations	Definitions
Certainty		The **probability** that an event will definitely happen.
Chance	**Examples of chance** There are 11 balls in this box. The chances of pulling out a red ball is 4/11 The chances of pulling out a yellow ball is 4/11 The chances of pulling out a blue ball is 1/11 The chances of pulling out an orange ball is 2/11 It could be estimated from the calculated chances that; • 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	The number of times an event is likely to happen compared to the number of times it could happen. For example; There is a 1 in 6 chance of throwing a 3 on a dice labelled 1-6. It is likely to happen once as there is only 1 number 3 on the dice but it could happen 6 times.
Consequences		The impact a decision can make on yourself and on others. For example; Reading food labels when shopping for the family – The majority of the food items state it is high in sugar, fat and calories. If this food is eaten each night, consequences for the family may be tooth decay long term, gradual weight gain etc.
Draw conclusions		To make statements about a set of **data** based on results.