Ideas of chance and uncertainty

| Term | Definition | Illustration |
| :---: | :---: | :---: |
| Certainty | The probability that an event will $100 \%$ definitely occur. |  |
| Chance | The number of times a single event is likely to happen out of a total number of possibilities. <br> 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. | Examples ot chance <br> There are 11 balls in thes box <br> The chances of pulting out a red bell is 4/11 The chances of pulling out a yeliow bell is 4/11 The chances of pulting out a blue ball is 1/11 The chances of pulling out an orange ball is $2 / 11$ <br> It could be estimated from the caculaked chances that: <br> - There is an equar chance of puling out a red or yollow bal <br> - You are most likely to pick out a red or yeilow bal <br> - You are least likely to pick out a blue bal |
| 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. |  |

1 | Numeracy and mathematics glossary

| Frequency table | A table used to note tally marks and show frequencies of each item. | Number of cars passing the school |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Colour | Tally Marks | Frequency |
|  |  | Red | 册 1 | 6 |
|  |  | Silver | Int Hent II | 12 |
|  |  | White |  | 17 |
|  |  | Green | IIII | ${ }^{4}$ |
|  |  | Blue | IH+1 IIII | 9 |
|  |  | Black | Ithr | 5 |
|  |  | Gold | 1 | 1 |
| Language of probability | 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. |  |  |  |
| Likelihood | The chance that an event will happen. |  |  |  |
| Prediction | An educated guess at future events based on past experiences. e.g. predicting the weather in December. |  |  |  |
| Probability | 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. |  |  |  |
| Uncertainty | The probability that an event may not happen. |  |  |  |

