## Overview of Chance

|  | Foundation L | Lower Primary | Middle Primary | Upper Primary | Lower Secondary | Middle Secondary |
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| Recognising Uncertainty | - recognise and respond to unpredictability and variability in events | - identify outcomes of simple chance events, such as the rolling of a die | - appreciate concept of fairness of chance games | - appreciate both long-term predictability and short-term variation |  | - classify events as dependent or independent <br> - find and interpret <br> expected value e.g. of gain or loss |
| Describing and Quantifying Chance | - use terms such as sometimes, always and never to describe events | - use terms such as certain, likely, unlikely and impossible to describe the likelihood of events | - qualitative comparison of likelihood (eg recognise chance of red from spinner depends on amount of red \& equal amounts of red and blue give equal chance) | - quantify simple probabilities as fractions and decimals between 0 and 1 | - calculate • use tree <br> theoretical diagrams to <br> probabilities list outcomes <br> using and calculate <br> symmetry etc probabilities | - calculate probabilities for complementary, mutually exclusive, compound, dependent and independent events, using lists, tree diagrams, venn diagrams, two-way tables |
| Chance experiments | - play games with random elements (e.g. dice) | - use spinners and dice in simple chance experiments | - plan and conduct chance experiments | $\bullet$ design simulations for $\bullet$ generate <br> simple chance events random <br>  numbers <br>  e.g. for <br>  simulations |  | - estimate probabilities from surveys, experiments, samples and simulations |
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