

Year 8 Mathematics

Level	Data 1 - Knowledge, Skills, Understanding
Higher	<p><u>Simple Probability</u> Recognise when it is not possible to work out a theoretical probability for an event</p> <p><u>Sample Spaces</u> Interpret sample space diagrams in multi-step problems</p> <p><u>Tree Diagrams</u> Construct theoretical possibility spaces for combined experiments with equally likely outcomes</p>
Intermediate	<p><u>Simple Probability</u> List all the outcomes for an experiment Identify equally likely outcomes Work out theoretical probabilities for events with equally likely outcomes Know how to represent a probability Apply the fact that the sum of probabilities for all outcomes is 1</p> <p><u>Sample Spaces</u> Use a sample space diagram to calculate probability</p> <p><u>Venn Diagrams</u> List all elements in a combination of sets using a Venn diagram List outcomes of an event using a grid (two-way table)</p> <p><u>Tree Diagrams</u> Use frequency trees to record outcomes of probability experiments Make conclusions about probabilities based on frequency trees Calculate probabilities using a possibility space Use experimental probability to calculate expected outcomes</p>
Foundation	<p><u>Simple Probability</u> Know that probability is a way of measuring likeliness Know and use the vocabulary of probability Understand the use of the 0-1 scale to measure probability Assess likeliness and place events on a probability scale Know that the sum of probabilities for all outcomes is 1</p> <p><u>Sample Spaces</u> List outcomes in a sample space</p> <p><u>Venn Diagrams</u> List outcomes of an event systematically Use a table to list all outcomes of an event</p> <p><u>Tree Diagrams</u> Use theoretical probability to calculate expected outcomes</p>