

## Probability

KS3 Prob (a)	Record, describe and analyse the frequency of outcomes of simple probability experiments involving randomness, fairness, equally and unequally likely outcomes, using appropriate language and the 0-1 probability scale
KS4 Prob (1)	Record describe and analyse the frequency of outcomes of probability experiments using tables and frequency trees
KS4 Prob (2)	Apply ideas of randomness, fairness and equally likely events to calculate expected outcomes of multiple future experiments
KS4 Prob (3)	Relate relative expected frequencies to theoretical probability, using appropriate language and the 0 - 1 probability scale
KS3 Prob (b)	Understand that the probabilities of all possible outcomes sum to 1
KS4 Prob (4)	Apply the property that the probabilities of an exhaustive set of outcomes sum to one; apply the property that the probabilities of an exhaustive set of mutually exclusive events sum to one
KS4 Prob (5)	<u>Understand that empirical unbiased samples tend towards theoretical probability distributions, with increasing sample size</u>
KS3 Prob (c)	Enumerate sets and unions/intersections of sets systematically, using tables, grids and Venn diagrams
KS4 Prob (6)	Enumerate sets and combinations of sets systematically, using tables, grids, Venn diagrams <u>and tree diagrams</u>
KS3 Prob (d)	Generate theoretical sample spaces for single and combined events with equally likely, mutually exclusive outcomes and use these to calculate theoretical probabilities.
KS4 Prob (7)	Construct theoretical possibility spaces for single and combined experiments with equally likely outcomes and use these to calculate theoretical probabilities
KS4 Prob (8)	<u>Calculate the probability of independent and dependent combined events, including using tree diagrams and other representations, and know the underlying assumptions</u>
KS4 Prob (9)	<b>Calculate and interpret conditional probabilities through representation using expected frequencies with two-way tables, tree diagrams and Venn diagrams.</b>