

<u>Year 7 Knowledge Organiser</u>

Probability

<u>Key Vocabulary</u>

- Probability the chance that something will happen
- Outcome the result of an event that depends on probability
- Event the outcome of a probability
- Chance the likelihood of a particular outcome
- Frequency tree used to record and organise events
- Enumerate an ordered listing
- Set a collection of objects
- Venn diagram a diagram organising sets, enclosed within a universal set
- Possibility space, sample space – a list of all possible outcomes of an experiment e.g. tossing a coin (heads, tails)
- Equally likely outcomes events that have the same theoretical probability (or likelihood) of occurring
- Theoretical probability determined on the basis of reasoning
- Experimental probability determined on the basis of the results of an experiment repeated many times
- Bias a built in error that makes all values wrong by a certain amount
- Relative frequency how often something happens divided by all outcomes

<u>Objectives</u>

Apply ideas of randomness, fairness and equally likely events to calculate expected outcomes

Use vocab and O-I probability scale

Construct theoretical possibility spaces for single experiments with equally likely outcomes and use these to calculate theoretical probabilities.

Enumerate sets and combinations of sets systematically, using tables, grids, Venn diagrams







