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 **Mathematics Faculty**

 **Year 10 Foundation – Summer Term 2**

 **Unit 12 Overview – Probability**

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Probability** | I can complete and use sample space diagrams and frequency trees to calculate probabilities. |  |  |  |
| I can calculate expected outcomes. |  |  |  |
| I can calculate relative frequency. |  |  |  |
| I can use the AND/OR rules to calculate probabilities. |  |  |  |
| I can complete and interpret Venn diagrams. |  |  |  |
| I can construct and use tree diagrams to calculate probabilities of independent events. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Using sample space diagrams** (CM clip 246) | Formative assessment strategies e.g. MWBs, whole class questioning, Diagnostic Questions, SLOP time with self-assessment, Live Marking etc.Assessment is also supported with our use of ILOs, set through Century Learning, Corbettmaths, Dr Frost Maths and Justmaths.Finally, units are assessed through skills checks and half termly assessments, as part of our Assessment Calendar in Mathematics. | probability, sample space, outcome, event |
| **2** | **Using frequency trees** (CM clip 376) | probability, frequency tree, outcome, event |
| **3** | Calculating expected outcomes. | probability, expectation, outcome, event |
| **4** | Calculating relative frequency (CM clip 248) | relative frequency, experiment, result, reliable, biased, expectation  |
| **5** | **Using the AND/OR rules to calculate probabilities** (CM clip 244) | probability, outcome, event, AND, OR, multiply, add |
| **6** | **Using set notation in Venn diagrams** (CM clip 379) | Venn diagram, notation, element, union, intersection, complement |
| **7** | **Completing Venn diagrams and calculating probabilities** (CM clip 380) | Venn diagram, notation, element, union, intersection, complement, probability |
| **8** | Constructing tree diagrams for independent events (CM clip 252) | probability, event, independent, tree diagram, AND, multiply |
| **9** | Calculating probabilities from probability trees (CM clips 249 & 252) | probability, event, independent, tree diagram, AND, OR, multiply, add |