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**Mathematics Faculty**

**Year 8 Summer Term 2 - Theta Scheme**

**Unit 12 Overview - Probability**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Probability** | I can use the language of probability. |  |  |  |
| I can represent probabilities on a scale. |  |  |  |
| I can list outcomes of events. |  |  |  |
| I can calculate the probability of an event occurring and not occurring. |  |  |  |
| I can compare probabilities. |  |  |  |
| I can carry out experiments and calculate probabilities. |  |  |  |
| I understand the difference between theoretical and experimental probability. |  |  |  |
| I understand bias and understand that repeating an experiment gives more reliable results. |  |  |  |
| I can complete Venn diagrams and calculate simple probabilities. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Using the language of probability and representing probabilities on a scale (CM clip 251) | 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 and Corbettmaths.  Finally, units are assessed through skills checks and half termly assessments, as part of our Assessment Calendar in Mathematics. | probability, likelihood, chance, certain, likely, even, unlikely, impossible, scale |
| **2** | **Listing outcomes.** **Calculating the probability of an event occurring** and not occurring (CM clips 245 & 250) | probability, likelihood, outcome, event |
| **3** | Comparing probabilities. | probability, likelihood, outcome, event |
| **4** | **Listing outcomes of two events systematically** (CM clip 253) | outcome, list, systematic |
| **5** | Carrying out simple experiments and calculating probabilities. Understanding the difference between theoretical and experimental probability. Understanding that repeating an experiment gives more reliable results. | probability, expectation, outcome, experiment, theoretical, experimental, bias, reliability |
| **6** | Completing Venn diagrams and calculating simple probabilities (CM clip 380) | Venn diagram, element, probability, outcome |