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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 single and multiple events systematically |  |  |  |
| I can calculate the probability of an event occurring and not occurring |  |  |  |
| I can compare probabilities |  |  |  |
| I can carry out experiments and calculate expected 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, which alternate between Basic Skills Checks one week and then a more individual ILO the following set through Century and Corbettmaths (see learning focus). Finally, every unit is assessed half-termly 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 expected probabilities. Understanding the difference between theoretical and experimental probability. | probability, expectation, outcome, experiment, theoretical, experimental |
| **6** | Using experimental probabilities. Investigating bias. Understanding that repeating an experiment gives more reliable results. | probability, experimental, outcome, bias, reliability |
| **7** | Completing Venn diagrams and calculating simple probabilities (CM clip 380) | Venn diagram, union, intersection, element, probability  |