****

**Mathematics Faculty**

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

**Unit 12 Overview - Probability**

|  |  |  |
| --- | --- | --- |
| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Probability** | I understand the language of probability. |  |  |  |
| I can calculate the probability of an event occurring or not occurring. |  |  |  |
| I can list outcomes of two events systematically. |  |  |  |
| I can use sample space diagrams. |  |  |  |
| I can complete Venn diagrams and calculate simple probabilities. |  |  |  |
| I understand the difference between theoretical and experimental probability and can calculate experimental probabilities. |  |  |  |
| I understand that repeating an experiment gives more reliable results. |  |  |  |
| I can calculate relative frequency. |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **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** | Understanding the terms mutually exclusive and exhaustive. | mutually exclusive, exhaustive |
| **3** | **Calculating the probability of an event** occurring and **not occurring** (CM clips 245 & 250) | probability, likelihood, outcome, event |
| **4** | Listing outcomes of two events systematically (CM clip 253) | outcome, list, systematic |
| **5** | Using sample space diagrams (CM clip 246) | sample space, outcome, event, probability |
| **6** | Completing Venn diagrams and calculating simple probabilities (CM clip 380) | Venn diagram, element, probability, outcome |
| **7** | Understanding the difference between theoretical and experimental probability. **Calculating experimental probabilities.** | probability, theoretical, experimental, likelihood |
| **8** | **Understanding that repeating an experiment gives more reliable results.** Calculating relative frequency (CM clip 248) | probability, experimental, outcome, reliability, repetition, relative frequency, event, observation |