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| **F Unit 4: Probability** | | **Year 10 Road Map** | | | | |
| In this unit you will learn about Probability. The aims are as follows:  **LG1**: Knowledge **LG2**: Application **LG3**: Skills  Assessment Grades: | | | | | | |
| **S/N** | **Learning Goals/Outcomes/Content** | | Video Clips | R A G |  |  |
| 1 | Distinguish between events which are impossible, unlikely, even chance, likely, and certain to occur; | | 14 |  |  |  |
| 2 | Mark events and/or probabilities on a probability scale of 0 to 1; | | 14 |  |  |  |
| 3 | Write probabilities in words or fractions, decimals and percentages; | | 59 |  |  |  |
| 4 | Find the probability of an event happening using theoretical probability; | | 59 |  |  |  |
| 5 | Use theoretical models to include outcomes using dice, spinners, coins; | | 59 |  |  |  |
| 6 | List all outcomes for single events systematically; | | 58, 69 |  |  |  |
| 7 | Work out probabilities from frequency tables, frequency trees, and two way tables; | | 61, 57 |  |  |  |
| 8 | Record outcomes of probability experiments in tables; | | 125 |  |  |  |
| 9 | Add simple probabilities; | | 204 |  |  |  |
| 10 | Identify different mutually exclusive outcomes and know that the sum of the probabilities of all outcomes is 1; | | 60 |  |  |  |
| 11 | Using 1 – *p* as the probability of an event not occurring where *p* is the probability of the event occurring; | | 60 |  |  |  |
| 12 | Find a missing probability from a list or table including algebraic terms; | | 60 |  |  |  |
| **Probability continuous** | | | | | | |
| 13 | Find the probability of an event happening using relative frequency; | | 125 |  |  |  |
| 14 | List all outcomes for combined events systematically; Use and draw sample space diagrams; | | 126 |  |  |  |
| 15 | Estimate the number of times an event will occur, given the probability and the number of trials – for both experimental and theoretical probabilities; | | 125 |  |  |  |
| 16 | Work out probabilities from Venn diagrams to represent real-life situations and also ‘abstract’ sets of numbers/values; | | 127a, 185 |  |  |  |
| 17 | Use union and intersection notation; | | 127b |  |  |  |
| 18 | Compare experimental data and theoretical probabilities; | | 125 |  |  |  |
| 19 | Compare relative frequencies from samples of different sizes; | | 125 |  |  |  |
| 20 | Find the probability of successive events, such as several throws of a single dice; | | 204 |  |  |  |
| 21 | Use tree diagrams to calculate the probability of two independent events; | | 151 |  |  |  |
| 22 | Use tree diagrams to calculate the probability of two dependent events. | | 151 |  |  |  |
| 23 | Find the probability of an event happening using relative frequency; | | 125 |  |  |  |

Student’s comment or questions