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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**: SkillsAssessment 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