# STATISTICS AND PROBABILITY – YEAR 5

| Chance | Data Representation and Interpretation |
|---|---|
| List outcomes of chance experiments involving equally likely outcomes and represent probabilities of those outcomes using fractions (116)<br>N 12-1, 12-3, 12-4 | Pose questions and collect categorical or numerical data by observation or survey (118)<br>N 12-8<br>D 1-1<br>D 3-1<br>D 4-1 |
| Recognise that probabilities range from 0 to 1 (117)<br>N 12-6 | Construct displays, including column graphs, dot plots and tables, appropriate for data type, with and without the use of digital technologies (119)<br>D 1-2, 1-3, 1-4, 1-5, 1-6<br>D Chapter 2<br>D 4-2<br>D 5-2<br>D Chapter 7 |
| | Describe and interpret different data sets in context (120)<br>D 2 -8<br>D 3-3, 3-4, 3-5 |

## STATISTICS AND PROBABILITY – YEAR 6

| Chance | Data Representation and Interpretation |
|---|---|
| Describe probabilities using fractions, decimals and percentages (144)<br>N 12-4 | Interpret and compare a range of data displays, including side-by-side column graphs for two categorical variables (147)<br>D 2-8 |
| Conduct chance experiments with both small and large numbers of trials using appropriate digital technologies (145)<br>N 12-8 | Interpret secondary data presented in digital media and elsewhere (148)<br>D Chapter 8<br>D Chapter 9 |
| Compare observed frequencies across experiments with expected frequencies (146)<br>N 12-8<br>A 1-7 | |

# STATISTICS AND PROBABILITY – YEAR 7

| Chance | Data Representation and Interpretation |
|---|---|
| Construct sample spaces for single-step experiments with equally likely outcomes (167)<br>N 12-1, 12-2, 12-3 | Identify and investigate issues involving continuous or large count data collected from primary and secondary sources (169)<br>N 12-8<br>D Chapter 7 |
| Assign probabilities to the outcomes of events and determine probabilities for events (168)<br>N 12-4, 12-5, 12-6, 12-7 | Construct and compare a range of data displays including stem-and-leaf plots and dot plots (170)<br>D Chapter 2<br>D Chapter 3<br>D Chapter 4 |
| | Calculate mean, median, mode and range for sets of data. Interpret these statistics in the context of data (171)<br>D 4-2, 4-3, 4-4, 4-5<br>D 10-1, 10-2<br>D 10-5, 10-6 |
| | Describe and interpret data displays and the relationship between the median and mean (172)<br>D 10-2, 10-3, 10-4<br>D 10-6 |

# STATISTICS AND PROBABILITY – YEAR 8

| Chance | Data Representation and Interpretation |
|---|---|
| Identify complementary events and use the sum of probabilities to solve problems (204)<br>N 12-6 | Investigate techniques for collecting data, including census, sampling and observation (284)<br>D Chapter 11<br>D Chapter 12 |
| Describe events using language of 'at least', exclusive 'or' (A or B but not both), inclusive 'or' (A or B or both) and 'and' (205)<br>N 12-6 | Explore the practicalities and implications of obtaining representative data using a variety of investigative processes (206)<br>D Chapter 11<br>D Chapter 12 |
| Represent such events in two-way tables and Venn diagrams and solve related problems (292)<br>N 12-2, 12-4<br>D 10-3 | Explore the variation of means and proportions in representative data (293)<br>D 11-8, 11-9 |
| | Investigate the effect of individual data values, including outliers, on the mean and median (207)<br>D 10-6 |