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| Learner stage | What I should know, understand, be able to explain or do |
| Exceptional Mastery (E) | I can solve problems involving frustums.I can use complex tree diagrams without replacement. |
| Advancing mastery (A) | I can work out the mean from a frequency table.I can work out an estimate for the mean from a grouped frequency table.I can work out the median from a frequency table.I can identify the averages from a stem and leaf diagram.I can describe the advantages and disadvantages of using each average.I can identify misleading graphs.I can calculate the length of arcs and areas of sectors.I can calculate the surface area and volumes of pyramids, cones and spheres.I can use tree diagrams to calculate probabilities with two or more events with replacement. |
| Secure mastery (S) | I can work out the mean and median from a set of data.I can identify the modal class from a frequency table.I can display data in a stem and leaf diagram.I can construct and interpret pie charts.I can construct and interpret scatter graphs.I can convert between metric units of volume.I can calculate the volume and surface area of all prisms.I can calculate the area and circumference of a circle.I understand mutually exclusive events.I can estimate probability based on experimental data.I can fill in sample space diagrams. |
| Developing mastery (D) | I can work out the mode and the range from a set of data.I can identify an outlier from a set of data.I can convert between metric units of area.I can calculate the volume and surface area of cubes and cuboids.I can recall the formulae for working out the area and circumference of a circle.I can list and count outcomes.I can calculate probability based on equally likely outcomes. |
| Foundation mastery (F) | I can identify the difference between the mean, mode, median and range.I can convert between metric units.I can use probability language correctly. |