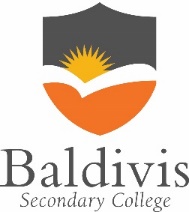
**Year 11 Essentials 2021**

**Investigation 1**

# Estimating and Approximation

**Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Time for the task: 2 lessons (in class)

Resources needed – laptop or device, Excel, catalogues **Total Marks:** / 30

**Task weighting:** 10 %

**Due Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You are responsible for organising the catering for the Year 11 end-of-year party. The organising committee has allocated $4000 to spend for the 180 people expected to attend.

Your task is to decide on an interesting menu for food and drink. Remember to stay within your budget and don’t forget to use a spreadsheet.

#### Checking and making sense of all calculations

* + 1. use leading digit approximation to obtain estimates of calculations

1.1.2 check results of calculations for accuracy

1.1.4 ascertain the reasonableness of answers, in terms of context, to arithmetic calculations

1.1.5 round up or round down answers to the accuracy required, including to the required number of decimal places

#### Basic calculations

* + 1. choose and use addition, subtraction, multiplication and division, or combinations of these operations, to solve practical problems

1.1.7 apply arithmetic operations according to their correct order

* + 1. apply approximation strategies for calculations if appropriate

1.1.11 use mental and/or flexible written strategies when appropriate