

## Term 3

### Year 8

#### Mathematics

##### **Course content**

In this term the topics covered will be calculations with converting fractions to percentages to decimals and finding percentage increase and decrease. Dividing quantities in a given ratio and solving simple worded problems involving direct proportion will be covered in ratio and proportion. In sequences and functions students will learn using linear expression to describe the  $n$ th term of simple arithmetic sequence and express simple functions algebraically and drawing straight line graphs. In shapes students will learn about transformation and making simple scale drawing. They will also learn about finding areas and working out surface areas using nets of 3D shapes. In probability students will learn about listing outcomes and finding probabilities based on equally likely outcomes in practical contexts.

##### **Resources**

- Text, Complete Mathematics for Cambridge Secondary 2
  - Section 1: Fractions, decimals and percentages
  - Section 2: Sequences, functions and graphs
  - Section 3: Transformations
  - Section 4: Ratio and proportion
  - Section 5: Area, perimeter and volume
  - Section 6: Probability
- Myimaths which is an online interactive teaching tool
- Further resources and links will be posted on edmodo.

##### **Assessment**

- Homework- online on myimaths or photocopied sheets from the homework book- 15%
- End of chapter test/quizzes- 25%
- Mid-term exam- 20%
- End of term exam-40%