

Food and wellbeing: Mathematics

Mathematics

The Australian Curriculum addresses learning about food and wellbeing predominantly in Health and Physical Education (HPE) and Design and Technologies, however there are opportunities to make connections with aspects of Mathematics, particularly Measurement and geometry and Statistics and probability.

Food and wellbeing dimensions

Mathematics - Years 5 and 6

Year 5

Measurement and geometry

Location and transformation

Content description with elaboration

Use a grid reference system to describe locations. Describe routes using landmarks and directional language (ACMMG113)

- creating a grid reference system for the classroom and using it to locate objects and describe routes from one object to another

Statistics and probability

Data representation and interpretation

Content descriptions with elaborations

Pose questions and collect categorical or numerical data by observation or survey (ACMSP118)

Construct displays, including column graphs, dot plots and tables, appropriate for data type, with and without the use of digital technologies (ACMSP119)

- identifying the best methods of presenting data to illustrate the results of investigations and justifying the choice of representations

Describe and interpret different data sets in context (ACMSP120)

- using and comparing data representations for different data sets to help decision making

Year 6

Measurement and geometry

Using units of measurement

Content descriptions with elaborations

Convert between common metric units of length, mass and capacity (ACMMG136)

- identifying and using the correct operations when converting units including millimetres, centimetres, metres, kilometres, milligrams, grams, kilograms, tonnes, millilitres, litres, kilolitres and megalitres
- recognising the significance of the prefixes in units of measurement

Solve problems involving the comparison of lengths and areas using appropriate units (ACMMG137)

- recognising and investigating familiar objects using concrete materials and digital technologies

Statistics and probability

Data representation and interpretation

Content descriptions with elaborations

Interpret and compare a range of data displays, including side-by-side column graphs for two categorical variables (ACMSP147)

- understanding that data can be represented in different ways, sometimes with one symbol representing more than one piece of data, and that it is important to read all information about a representation before making judgements

Interpret secondary data presented in digital media and elsewhere (ACMSP148)

- investigating data representations in the media and discussing what they illustrate and the messages the people who created them might want to convey
- identifying potentially misleading data representations in the media, such as graphs with broken axes or non-linear scales, graphics not drawn to scale, data not related to the population about which the claims are made, and pie charts in which the whole pie does not represent the entire population about which the claims are made