Food and fibre: Mathematics

Mathematics

The Australian Curriculum addresses learning about food and fibre predominantly in Design and Technologies and F-6/7HASS/Geography, however there are opportunities to make connections with aspects of Mathematics, particularly Measurement and geometry and Statistics and probability.

Food and fibre dimensions

Mathematics - Foundation to Year 2

Foundation
Numbers and algebra
Patterns and algebra
Content description with elaborations:
Sort and classify familiar objects and explain the basis for these classifications. Copy, continue and create patterns with objects and drawings (ACMNA005)
- observing natural patterns in the world around us
- creating and describing patterns using materials, sounds, movements or drawing

Measurement and geometry
Using units of measurement
Content descriptions with elaborations:
Use direct and indirect comparisons to decide which is longer, heavier or holds more, and explain reasoning in everyday language (ACMMG006)
Compare and order duration of events using everyday language of time (ACMMG007)
Connect days of the week to familiar events and actions (ACMMG008)
- comparing objects directly, by placing one object against another to determine which is longer or by pouring from one container into the other to see which one holds more
  sequencing familiar events in time order
- choosing events and actions that make connections with students' everyday family routines

Statistics and probability
Data representation and interpretation
Content description with elaborations:
Answer yes/no questions to collect information and make simple inferences (ACMSP011)
- posing questions about themselves and familiar objects, and events

Year 1
Measurement and geometry
Using units of measurement
Content description with elaborations:
Describe duration using months, weeks, days and hours (ACMMG021)
- describing the duration of familiar situations such as 'how long is it until we next come to school?'

Statistics and probability
Data representation and interpretation
Content descriptions with elaborations:

Choose simple questions and gather responses and make simple inferences (ACMSP262)
- determining which questions will gather appropriate responses for a simple investigation

Represent data with objects and drawings where one object or drawing represents one data value. Describe the displays (ACMSP263)
- understanding one-to-one correspondence
- describing displays by identifying categories with the greatest or least number of objects

Year 2
Measurement and geometry
Using units of measurement
Content description with elaborations:
Name and order months and seasons (ACMMG040)
- investigating the seasons used by Aboriginal people, comparing them to those used in Western society and recognising the connection to weather patterns

Statistics and probability
Data representation and interpretation
Content descriptions with elaborations:
Identify a question of interest based on one categorical variable. Gather data relevant to the question (ACMSP048)
- determining the variety of birdlife in the playground and using a prepared table to record observations

Collect, check and classify data (ACMSP049)
- identifying categories of data and using them to sort data
- recognising the usefulness of tally marks

Create displays of data using lists, table and picture graphs and interpret them (ACMSP050)
- creating picture graphs to represent data using one-to-one correspondence
- comparing the usefulness of different data displays