

Data and chance: Data – Suggestions for children's learning

The child has opportunities to...

Understand and connect

- explore data in the immediate environment and identify its relevance in their own life.
- use tallies to quickly and accurately collect data.
- use a variety of data models, e.g., *pictogram*, *bar chart*, *pie chart* etc. to represent the same data set to recognise the relationship between the models.
- use data to justify arguments or ideas.
- identify surplus data or recognise when data is not relevant to answering a particular question.



- explore, discuss and listen to ideas about criteria for sorting various sets.
- take part in discussions about various data sets and talk about what piques their interest.
- have opportunities to discuss and analyse data sets they compile to draw conclusions and further areas of interest.
- use digital technology to collect, organise and represent data.



Communicate

Reason

- explain and justify their reasons for classification of attributes within particular sets.
- make simple inferences about data sets.
- use existing data sets to pose new questions to investigate using the data handling cycle.
- choose a particular model to represent a data set and justify their choice.
- critically analyse data representations asking what information is represented and what information is not.



- use a cyclical approach to handling data.
- use data to analyse a problem relevant to their own lives and propose potential solutions.
- have opportunities to compare multiple data sets.
- exercise choice and creativity in data collection and representation methods.



Apply and problem-solve