



IN FOOTY MODE

Activity Sheet 1

Level 	Setting Indoor/outdoor	Participants Whole group	Facilitators 1 facilitator	Time 40 min
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What you will need:

Whiteboard/paper and markers

Resource to print: AFL Footy Clubs and Colours

Resource to print: Data Representations Guide

Activity focus

Data collection

Making and reading graphs

Identifying and understanding the concepts

Statistical concepts

Develop: Level 1. statistics, data, survey, graph

Extend: Level 2. x-axis, y-axis, percentage, variable, mode

Statistical capabilities

This activity aims to develop the following competencies:

Level 1: Data representation, Data investigation, Data interpretation

Level 2: Data representation

See 'Footy Stats Program - Statistical competencies' for more information





Learning Activities and Experience

Time

Introduction	<p>List all AFL teams on a whiteboard/paper and begin the discussion by conducting a quick survey to find out which AFL team each participant supports.</p> <ul style="list-style-type: none">• How many people in our group support each AFL team?• What is a graph?• What type of graphs do you know?	10 min
Body	<p>As a group, discuss the use of a graph to organise the collected data</p> <p>Draw and identify the axes for a graph on whiteboard/paper:</p> <ul style="list-style-type: none">• X-axis is the horizontal line (i.e. the line across the bottom)• Y-axis is the vertical line (i.e. the line down the left side) <p>Ask the group to help label the graph:</p> <ul style="list-style-type: none">• What are the two variables ('AFL teams' & 'number of participants') we need to show on the axes in the graph?• Mark AFL teams on the x-axis• Mark the number of participants in the group on the y-axis• Ask each participant one by one to place a mark next to their favourite AFL team on the graph	20 min
Conclusion	<p>In reference to the graph, introduce statistical concepts:</p> <p>Mode</p> <ul style="list-style-type: none">• Which football team has the most supporters?• How many supporters does the team have?• How do we know? (reinforce the use of a graph to find out the answer)	10 min



Why this is important

The ABS Footy Stats program provides a fun and interactive introduction to the world of statistics. The program enables children to participate in a range of footy activities and learn how to collect, analyse, interpret and communicate basic statistical concepts.

In this activity, participants:

- Begin to develop an understanding of data and its uses
- Work together to conduct a simple investigation: taking a small data collection activity (survey), producing a graph, and analysing the information to answer the questions
- Explore and identify the statistical concept mode within the data set to answer the investigation question

What you do

Evaluate the statistical learning of the participants:

- Are participants able to construct a graph with awareness of the two variables: AFL team and number of supporters?
- Are participants able to identify and describe the information represented by the graph?
- Are participants able to interpret the concept of mode to identify the most popularly supported team in the group?

Explore statistical concepts further with this activity

Percentage:

What percentage of the group supports each team?

Applying the learning:

The mode in our data tells us that _____ is the most popular team in our group.

Does this mean it would also be the most popular team if we asked all Australians?

Why?

What are some ways we could find out?

- Wider survey/Census
- Number of memberships with each club

What are some limitations of these investigation methods?