

Representing and comparing data

represent collected data for a categorical variable using one-to-one displays and digital tools where appropriate; compare the data using frequencies and discuss the findings

Learning intention

- represent collected data for a categorical variable using one-to-one displays and digital tools where appropriate; compare the data using frequencies and discuss the...

Teach and model

- creating a pictograph with objects or drawings; discussing the possible categories for the pictograph, arranging the objects or drawings into the categories, then reflecting...
- translating data from a list or pictorial display into a tally chart to make counting easier; describing what the tally chart is showing, by referring to the categories...
- recognising that when there is no data for a particular category you may choose whether or not to include it in your data display, and use a zero or blank for that category...

Check understanding

- Explain the main idea in representing and comparing data using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.