



Picture Graphs & Data Stories

LEARNING GOAL

Collect simple categorical data, organise it and interpret a picture graph accurately.

Study -> Practise -> Talk -> Make -> Reflect

Designed for short adult-supported sessions and independent return practice.

Purpose

Collect simple categorical data, organise it and interpret a picture graph accurately.

Suggested rhythm

Use 10-15 minutes. Model one example, let the child try, ask how they know, then stop while attention is still positive.

Feedback

Praise the strategy, careful observation or explanation. If an answer is wrong, ask the child to show their thinking before correcting it.

Transfer

Use the hands-on task before or after the printable page so the skill connects to real objects, talk and movement.

Safety & independence

Adult supervision is expected for cutting, small objects, outdoor exploration, water, torches or elastic bands. Adapt materials to the child.

Say the words, use them in conversation, then return to them during the activities.

Data

Use it in your own sentence or explanation.

Category

Use it in your own sentence or explanation.

Survey

Use it in your own sentence or explanation.

Graph

Use it in your own sentence or explanation.

Most

Use it in your own sentence or explanation.

Talk prompt

Which of these words feels newest? Explain what you think it means and give an example connected to data and chance.

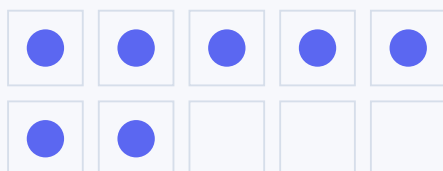
1

A graph represents information. Labels and a key tell us what the marks mean.

2

Questions should be answered from the data, not from guesses.

SHOW IT ANOTHER WAY



Use counters, drawings, words and symbols. Strong maths moves between representations.

Adult: model the first item. Child: explain what you notice or how you know.

1 Survey five people about a favourite fruit.

2 Make tally marks, then a simple picture graph.

3 Which category has the most? least?

4 How many more chose one category than another?

Work carefully. Draw, mark, build or write when that helps your thinking.

1 Survey five people about a favourite fruit.

2 Make tally marks, then a simple picture graph.

3 Which category has the most? least?

4 How many more chose one category than another?

5 If one picture means 2 votes, how many votes do 4 pictures show?

SHOW YOUR THINKING

Work carefully. Draw, mark, build or write when that helps your thinking.

- 1 Which category has the most? least?
- 2 How many more chose one category than another?
- 3 If one picture means 2 votes, how many votes do 4 pictures show?
- 4 Why must a graph key stay consistent?
- 5 Survey five people about a favourite fruit.

SHOW YOUR THINKING

Talk 1 If one picture means 2 votes, how many votes do 4 pictures show?

Talk 2 Why must a graph key stay consistent?

Talk 3 What strategy, clue or observation helped you most with data and chance?

Talk 4 What mistake might someone make here? How could you help them notice it?

A complete explanation is more valuable than a fast one-word answer.

DO SOMETHING REAL

Collect real data about sock colours, toy types or books at home. Sort first, then represent the counts.

RECORD WHAT HAPPENED

What I did

What I noticed

What I would try next

CREATE CHALLENGE

Design a graph question for someone else to answer from your data.

Use this space to draw, label, plan or draft.

Independent challenge

MATHEMATICS

Try without help first. Then explain or check your work with a grown-up.

- 1 If one picture means 2 votes, how many votes do 4 pictures show?
- 2 Why must a graph key stay consistent?
- 3 Create one new example that would help another Grade 1 learner practise data and chance.

MY CHECK

☐ I tried a strategy ☐ I checked it ☐ I can explain one idea

ANSWER / REVIEW NOTES

- 8 votes.
- Changing the key changes the meaning of every symbol and makes comparisons invalid.

LEARNER REFLECTION

One thing I understand better now:

One thing I want to practise again:

One real-life example I can think of:

Review status: original BrightPencil draft. Educational and rights review required before public publication.