

GRADE 2 LEARNING PACK

Weather Data: Measure, Graph & Notice Patterns

Collect or interpret simple weather data and distinguish observations, patterns and forecasts.

LEARN • PRACTISE • CREATE • REFLECT

Original BrightPencil Kids resource - adult-led where appropriate

A4 edition • 12 purposeful pages • review copy

Print. Learn. Grow.

Grown-up guide

Learning objective

Collect or interpret simple weather data and distinguish observations, patterns and forecasts.

Use this pack well

- Model the first example aloud, then let the learner try.
- Ask “How do you know?” more often than “Are you finished?”.
- Use real objects, talk, movement or observation when the activity suggests it.
- Stop or shorten the session if attention or enjoyment drops.
- Open-ended pages can have many successful answers.

Quality note

This resource was written originally for BrightPencil Kids. Curriculum sources informed scope and progression only; no third-party worksheet or story text is reproduced.

Learn the idea

1 Weather data can include temperature, rainfall, wind and cloud observations.

2 Tables and graphs help compare repeated observations.

3 A pattern in past data can inform a forecast but does not guarantee it.

Talk about it

Explain one idea in your own words. Give an example from real life, a drawing or an object if that helps.

Read a seven-day temperature table and identify highest, lowest and range informally.

Turn five rainfall values into a simple bar graph.

Write two statements that are directly supported by a sample weather graph.

Label a claim as observation, pattern or forecast.

Explain why one unusually warm day does not prove a long-term climate pattern.

Try it beyond the page

Real-world / hands-on connection

Record one safe weather observation at the same time on several days, or use teacher-provided data when direct measurement is not practical.

Before you finish

What did you notice?

What evidence, object or example helped you?

What would you change if you tried again?

Create something

Your project

Make a one-page weather dashboard with a table, small graph, two evidence statements and one cautious forecast.

Use this space for planning, drawing, mapping, designing or notes.

CHALLENGE

Think deeper

1. What is the difference between weather data and a forecast?

2. Why collect weather information repeatedly?

3. What wording makes a forecast appropriately cautious?

Quick review

1. In one sentence, explain the big idea of “Weather Data: Measure, Graph & Notice Patterns”.

2. Draw or write one example that shows you understand.

3. Choose one activity from this pack and explain the strategy you used.

4. Write one question you still have.

Answer & discussion notes

Use these as guidance, not scripts. Open questions can have different successful responses when the reasoning is sensible and evidence-based.

1. Suggested response

Data record observations/measurements; a forecast predicts future conditions.

2. Suggested response

Repeated data allow comparison and patterns to be noticed.

3. Suggested response

Words such as may, likely or possible when supported by evidence.

Review before publication

Check age fit, factual accuracy, clarity, accessibility, rights provenance and whether the activity works in practice. This file remains a review copy until those checks are signed off.

FINISH

My learning reflection

I finished this BrightPencil learning pack.

One thing I understand better now:

A strategy that helped me:

Something I created or noticed:

My next small question or goal:

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