

Weather, Climate & Evidence

Distinguish short-term weather from longer-term climate patterns and interpret simple climate-style data carefully.

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

Distinguish short-term weather from longer-term climate patterns and interpret simple climate-style data carefully.

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 describes atmospheric conditions over short periods.

2 Climate describes typical patterns over much longer periods.

3 A short data set cannot by itself establish a long-term climate trend.

Talk about it

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

Sort ten statements into weather observation, forecast or climate description.

Read a 12-month fictional rainfall graph and identify wettest/driest months.

Compare two fictional climate graphs using temperature and rainfall.

Explain why five hot days do not prove a climate trend.

Write two evidence statements and one question from a data display.

Try it beyond the page

Real-world / hands-on connection

Compare a current weather report with an adult-selected climate information page and discuss why they answer different questions.

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

Build a one-page climate comparison card for two fictional places using provided data, not stereotypes.

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

CHALLENGE

Think deeper

1. Is “rain today” weather or climate?

2. Why do climate claims need long-term data?

3. What is one safe word for a cautious interpretation?

Quick review

1. In one sentence, explain the big idea of “Weather, Climate & Evidence”.

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

Weather.

2. Suggested response

Climate concerns longer-term patterns and variability.

3. Suggested response

Suggests/may/likely, when evidence supports it.

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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