

GRADE 5 LEARNING PACK

Climate Evidence, Variability & Claims

Distinguish weather, climate and long-term trend claims using appropriately scaled evidence.

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 weather, climate and long-term trend claims using appropriately scaled evidence.

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 is short-term atmospheric condition; climate describes longer-term patterns.

2 Variation from year to year can occur within a longer pattern.

3 A strong climate claim needs sufficiently long, relevant and trustworthy records.

Talk about it

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

Build a clear model or organiser that shows: Weather is short-term atmospheric condition; climate describes longer-term patterns.

Use supplied evidence to test this idea: Variation from year to year can occur within a longer pattern.

Compare two cases and explain where this principle matters: A strong climate claim needs sufficiently long, relevant and trustworthy records.

Find one weak claim or assumption and revise it so it matches the evidence.

Write a short conclusion that states evidence, limitation and next question.

Try it beyond the page

Real-world / hands-on connection

Compare a current weather report with a long-term climate summary from trusted sources.

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

Create two fictional climate graphs and write three cautious evidence-based comparisons.

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

CHALLENGE

Think deeper

1. Can one unusually hot week prove a climate trend?

2. Why are long records important?

3. What language suits uncertain evidence?

Quick review

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

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

No.

2. Suggested response

They help separate short-term variability from longer patterns.

3. Suggested response

Cautious wording such as suggests, may or is consistent with.

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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