

GRADE 5 LEARNING PACK

Ecosystems, Interdependence & Change

Model food webs and ecosystem interdependence, then predict possible consequences of environmental change cautiously.

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

Model food webs and ecosystem interdependence, then predict possible consequences of environmental change cautiously.

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 Food webs represent multiple feeding relationships and energy transfer.

2 Population changes can have direct and indirect effects through a system.

3 Predictions are models, not guarantees; ecosystems contain many interacting factors.

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 food web with producers and several consumer levels.

Predict two possible effects of a producer decline.

Explain competition using a shared limited resource.

Compare a short-term disturbance with a long-term trend.

Identify data that would help test an ecosystem prediction.

Try it beyond the page

Real-world / hands-on connection

Make a non-invasive habitat observation and record possible relationships without feeding, collecting or disturbing wildlife.

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 an ecosystem-change scenario with web diagram, prediction, uncertainty note and proposed evidence to collect.

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

CHALLENGE

Think deeper

1. Why are food webs often more realistic than one food chain?

2. Can one observation prove a long-term ecosystem trend?

3. What starts many food webs?

Quick review

1. In one sentence, explain the big idea of “Ecosystems, Interdependence & Change”.

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

Organisms often have several feeding relationships.

2. Suggested response

No.

3. Suggested response

Producers such as green plants.

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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