

GRADE 2 LEARNING PACK

Young Scientist: Fair Comparisons & Records

Plan simple investigations by changing one main factor, observing carefully and recording 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

Plan simple investigations by changing one main factor, observing carefully and recording 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 A question guides an investigation.

2 Keeping important conditions the same makes comparisons clearer.

3 Results should be recorded even when they do not match a prediction.

Talk about it

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

Turn “Which paper is strongest?” into a testable question.

Identify what to change and what to keep the same in a simple absorbency test.

Choose a table for recording repeated observations.

Separate prediction from result.

Write a conclusion that matches sample evidence.

Try it beyond the page

Real-world / hands-on connection

With adult guidance, run a safe mini test using paper types and equal drops of water.

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

Design an investigation planner: question, prediction, change, keep same, measure/observe, result.

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

CHALLENGE

Think deeper

1. Why keep some conditions the same?

2. Should unexpected results be hidden?

3. What should a conclusion refer to?

Quick review

1. In one sentence, explain the big idea of “Young Scientist: Fair Comparisons & Records”.

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

To make comparison clearer/fairer.

2. Suggested response

No.

3. Suggested response

The actual evidence/results.

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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