

GRADE 2 LEARNING PACK

Number Pattern Rules

Identify, describe and test additive/subtractive rules in number sequences.

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

Identify, describe and test additive/subtractive rules in number sequences.

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 pattern rule must fit every shown step

2 differences can reveal a rule

3 more than one apparent rule may fit too little data

Talk about it

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

Find the rule: 4, 7, 10, 13.

Continue 30, 25, 20, 15.

Spot the wrong term in 2, 6, 10, 15, 18.

Create a sequence with rule +4 starting below 10.

Explain why 2,4 alone is not enough to prove “add 2 forever”.

Try it beyond the page

Real-world / hands-on connection

Use cards, counters, drawings or movement to model at least one puzzle before solving only in your head.

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 two number trails for a partner: one additive and one subtractive.

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

CHALLENGE

Think deeper

1. Which strategy reduced the possibilities?

2. How did you verify the final answer?

3. When would changing strategy be sensible?

Quick review

1. In one sentence, explain the big idea of “Number Pattern Rules”.

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

Name a relevant strategy such as table, elimination, drawing, physical model or working backwards.

2. Suggested response

Check every rule/condition against the solution.

3. Suggested response

When the current approach is confusing, inefficient or not producing progress.

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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