

GRADE 3 LEARNING PACK

Pattern, Symmetry & Transformation

Create visual patterns using reflection, rotation, translation and planned variation.

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

Create visual patterns using reflection, rotation, translation and planned variation.

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 Transformations change position/orientation while preserving a motif.

2 Symmetry can be exact or deliberately broken for effect.

3 Pattern rhythm depends on spacing and repetition.

Talk about it

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

Reflect a motif across a line.

Rotate a motif by quarter turns.

Translate a motif across a grid.

Create an almost-symmetrical pattern and explain the break.

Compare dense and spacious repeats.

Try it beyond the page

Real-world / hands-on connection

Use cut-paper shapes or Creative Studio stamps to test transformations physically.

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 a border pattern that uses at least two transformations and one planned variation.

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

Think deeper

1. Which artistic/design decision was most deliberate?

2. What evidence from observation or testing caused a revision?

3. How could another creator solve the same brief differently?

Quick review

1. In one sentence, explain the big idea of “Pattern, Symmetry & Transformation”.

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 specific choice involving line, value, colour, texture, space, form, structure or hierarchy.

2. Suggested response

Describe the observation/test and the resulting change.

3. Suggested response

Many solutions can be successful when they meet the purpose/criteria.

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.

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:
