

GRADE 3 LEARNING PACK

Light: Sources, Reflection & Shadows

Describe light sources, reflection and shadow formation through safe observation.

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

Describe light sources, reflection and shadow formation through safe observation.

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 We see non-luminous objects when light from a source reflects into our eyes.

2 Smooth shiny surfaces can reflect light strongly.

3 Shadows form where an opaque object blocks light.

Talk about it

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

Classify luminous vs reflected-light objects.

Predict how moving an object closer to a light source changes a shadow.

Compare a mirror, paper and foil for reflection.

Draw a source-object-shadow diagram.

Explain why the Moon is not a light source in the same way as the Sun.

Try it beyond the page

Real-world / hands-on connection

Use a torch and safe opaque objects under adult supervision; never look directly at the Sun or intense lights.

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 a shadow-theatre investigation page with one variable to change and measure.

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

CHALLENGE

Think deeper

1. Why can we see a book?

2. What forms a shadow?

3. Is the Moon a luminous source like the Sun?

Quick review

1. In one sentence, explain the big idea of “Light: Sources, Reflection & Shadows”.

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

Light reflects from it into our eyes.

2. Suggested response

An object blocks light.

3. Suggested response

No; it mainly reflects sunlight.

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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