

Deduction Grids: Use Every Clue

Solve multi-clue logic problems by recording what is possible, impossible and proven.

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

Solve multi-clue logic problems by recording what is possible, impossible and proven.

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 Deduction combines clues rather than guessing.

2 Eliminating an option can be as useful as confirming one.

3 A complete solution should satisfy every clue.

Talk about it

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

Solve a 3-person/3-object warm-up grid.

Mark impossible pairs before confirmed pairs.

Use a negative clue with two positive clues.

Identify a clue that becomes useful only after another clue is solved.

Check a completed grid against every clue.

Try it beyond the page

Real-world / hands-on connection

Play a short paper deduction puzzle with a family member and explain each confirmed step aloud.

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

Write an original 3x3 deduction puzzle with exactly one solution and provide a solution grid.

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

CHALLENGE

Think deeper

1. Why mark impossible pairs?

2. What should you do after finding a solution?

3. Is guessing the same as deduction?

Quick review

1. In one sentence, explain the big idea of “Deduction Grids: Use Every Clue”.

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

It narrows the possibilities.

2. Suggested response

Check every clue.

3. Suggested response

No.

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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