

Data Logic: Tables, Conditions & Consistency

Use tables and conditional clues to find records that meet several criteria without losing track of conditions.

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

Use tables and conditional clues to find records that meet several criteria without losing track of conditions.

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 Filtering applies criteria step by step.

2 AND conditions require all stated criteria; OR conditions allow alternatives.

3 A conclusion should not go beyond the available fields.

Talk about it

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

Filter a fictional table by age range and activity type.

Compare AND versus OR results.

Find a row with missing data and explain why certainty is limited.

Spot a conclusion that uses a field not present in the table.

Write a precise query in everyday language.

Try it beyond the page

Real-world / hands-on connection

Sort a small collection of non-personal objects by two or three observable properties.

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 fictional creature database with six rows and write five logic filters for another learner.

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

CHALLENGE

Think deeper

1. What does AND require?

2. Can missing data support a definite claim?

3. Why name the exact criteria?

Quick review

1. In one sentence, explain the big idea of “Data Logic: Tables, Conditions & Consistency”.

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

All specified conditions.

2. Suggested response

Not usually.

3. Suggested response

So the filter can be checked and repeated.

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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