



EduTrend Contents

EDUTECH · CASE STUDIES AND SUCCESS STORIES · MIDDLE SCHOOL

Before and After

Plan the measures for a class revision quest and interpret sample results

Ages 12–14

Level: Intermediate

50 minutes

Pairs · up to 30

Activity 04

Inside: activity at a glance · step-by-step session plan · facilitator notes · 3 student worksheets · assessment checklist

ACTIVITY 04 · AT A GLANCE

Before and After

A class plans a four-week revision quest. Pairs decide what to measure before it starts: one learning measure, such as a short quiz, and one engagement measure, such as homework completion. They then study a sample results table invented for this activity, compare before and after, look at different groups of pupils and write a balanced conclusion.

Learning outcomes

By the end of the session students can:

- choose a learning and an engagement measure;
- explain why measures are chosen first;
- interpret before and after data;
- write a balanced conclusion.

KEY WORDS

measure · baseline · engagement · learning · group · conclusion

CURRICULUM LINKS

Maths: averages and tables.
Science: variables. English: balanced writing.

1

GOAL

What is the learning goal?

2

CHALLENGE

What is the task?

3

FEEDBACK

How do players know?

4

PROGRESS

How is growth shown?

5

RETRY

Can they try again?

6

REFLECT

Did it help learning?

Materials (per pair)

- Quest outline card
- Sample results table (invented)
- Calculators
- Worksheets 1, 2 and 3

Before the session

- Print the quest outline.
- Print the sample results table.
- Label data as invented.
- Prepare conclusion stems.

SAFETY

Data are invented for practice. Never display real pupils' scores.

ACTIVITY 04 · SESSION PLAN

Step by step

Keep calculations simple; the focus is interpretation.

Time	What happens	Say or ask
0–5 min Launch	Introduce the revision quest.	<i>“How would we know it helped?”</i>
5–15 min Measures	Choose two measures.	<i>“Why decide first?”</i>
15–30 min Data	Interpret sample results.	<i>“What changed? For whom?”</i>
30–42 min Conclusion	Write a balanced conclusion.	<i>“What can’t we say?”</i>
42–50 min Share	Compare conclusions.	<i>“Which is most honest?”</i>

CHALLENGE CARD (print or copy onto the board)

Decide how to measure a revision quest before it starts, then write the most honest conclusion you can from the results.

ACTIVITY 04 · FACILITATOR NOTES

The evaluation know-how in brief

Choosing measures before a project starts stops people picking the result that looks best afterwards.

A quest can raise effort, such as homework completion, without changing test results. Both findings are useful.

Common ideas to listen for

- “If engagement rose, learning rose.” Check separately.
- “The average tells the whole story.” Look at groups.
- “No change means failure.” It is useful evidence.

Adapting the activity

Support

Provide the class averages ready calculated.

Stretch

Suggest a comparison unit taught without the quest.

WORKSHEET 1

Our measures

Name: _____

Class: _____ Date: _____

Decide before the quest starts.

Our measures

Type	Measure	When collected
Learning		
Engagement		
Pupil views		

WORKSHEET 2

Reading the results

Use the sample table.

Reading the results

Group	Before	After	Change

WORKSHEET 3

Balanced conclusion

Say what the data show and do not show.

Our conclusion

FOR THE TEACHER

Assessment checklist

Use during the session. One sheet covers up to eight students; copy as needed.

Student	Chooses suitable measures	Interprets data	Writes balanced conclusion

Suggested codes: W = working towards · E = expected · G = greater depth

ABOUT THIS ACTIVITY

Before and After is a sample activity from the EduTrend Contents Edutech Case Studies and Success Stories programme (middle school, level: intermediate). Every activity in the programme follows the same format: a practical challenge, a clear session plan, facilitator notes and ready-to-print worksheets, so that teachers, club leaders and parents can run it without extra preparation.

Full 15-, 20- and 32-week programmes are available from EduStore at edutrend.org.

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