GRADE 6 | SCIENCE

STUDENT UNIT 1 | ONE SUBJECT ONLY

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STUDENT SCIENCE WORKBOOK - Unit 1

Science only. Read the teaching text, then complete safe investigations, explanations and questions.

Lesson 1: Controlled experiments and data

Science Lesson

Learn: A controlled experiment plans one independent variable, measures a dependent variable and attempts to keep other relevant conditions consistent. Replication and uncertainty matter. Fictional data are useful for mathematics practice but cannot be described as observed results.

Science Practice: 10 Assignments

1. Write a testable question about a toy car’s movement.

2. Identify one independent variable.

3. Identify one dependent variable.

4. List three controlled conditions.

5. For fictional data 4,6,8,10,12 calculate the mean.

6. Find the range of those data.

7. Explain why a sample of one may be unreliable.

8. Describe a possible confounder.

9. Write a claim supported by only the given fictional data.

10. Advanced: draft a replication plan and explain limits of causal inference.

Observe and Explain

Separate observations from hypotheses and illustrations from measured results. Never invent experimental data. Use safe materials and adult guidance where needed.

Advanced Science Extension

Form a measurable question about this lesson, describe a fair comparison and identify at least one limitation. This challenge is available at any age when prerequisites are mastered.

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