



Science Toolkit: Grade 8 Objective 1.B.1.a

Student Handout: Science: Grade 8 Objective 1.B.1.a

Standard 1.0 Skills and Processes

Topic B. Applying Evidence and Reasoning

Indicator 1. Review data from a simple experiment, summarize the data, and construct a logical argument about the cause-and-effect relationships in the experiment.

Objective a. Verify the idea that there is no fixed set of steps all scientists follow, scientific investigations usually involve the collection of relevant evidence, the use of logical reasoning, and the application of imagination in devising hypotheses and explanations to make sense of the collected evidence.

Selected Response (SR) Item

Question

Scientists conduct investigations to answer questions.

Before making a valid conclusion, scientists must

- A. collect relevant evidence
- B. tell people about the data
- C. publish results from the investigation
- D. discuss the investigation with other scientists

Correct Answer

A. collect relevant evidence

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