Name: _____ **Date:** _____

Answer Key: Think Like a Young Scientist: Your 2nd Grade Lab Report Journey

Students predict results and organize observational data by analyzing a curious mystery involving ice cubes and fuzzy socks.

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1. Imagine you see a mushroom growing in a garden. What is the first thing a scientist does to start an investigation?

Answer: B) Ask a question about how it got there

Every scientific journey begins with curiosity and asking a question about what you observe.

2. A hypothesis is a 'best guess' or prediction that you can test with an experiment.

Answer: A) True

Scientists use what they already know to make a testable prediction, which we call a hypothesis.

3. Maya wants to know if ants like sugar or salt more. She places both on the ground. The act of checking on the ants every 10 minutes is called _____.

Answer: C) Observation

Looking closely and recording what is happening during a test is called making an observation.

4. Leo is testing which ball bounces highest: a tennis ball or a golf ball. To make it a 'fair test,' what should he do?

Answer: A) Drop them from the same height

In a fair test, you keep everything the same except for the one thing you are testing.

5. After finishing his experiment, Sam writes a sentence saying his hypothesis was right. This final step is called a _____.

Answer: D) Conclusion

A conclusion explains what you learned and if your prediction came true.

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6. If an experiment shows your hypothesis was wrong, you have failed as a scientist.

Answer: B) False

Scientists learn just as much from incorrect predictions as they do from correct ones!

7. Which of these is a piece of DATA that you could record in a chart?

Answer: B) The plant grew 3 inches

Data includes measurable facts, like height or weight, that you can track during an experiment.

8. Before starting a new experiment about magnetism, a scientist should read books to see what others found. This is called _____.

Answer: A) Research

Researching helps you learn what is already known so you can make a better plan.

9. Scientists must share their results with others so move science forward.

Answer: A) True

Communication is key so other scientists can try the experiment themselves.

10. You want to find out if a heavy rock sinks faster than a marble. What is the BEST way to find out?

Answer: D) Conduct an experiment in a tub of water

Actually testing your idea with an experiment provides the evidence needed to answer the question.