

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Answer Key: Super Scientific Study: Second Grade's Specialized Science Quiz

Construct connections between complex scientific roles and real-world problems by categorizing professional investigative techniques and tools.

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**1. A scientist finds a strange rock that looks like a giant tooth. They want to find out if it belongs to a dinosaur that lived long ago. Which branch of science should they use?**

**Answer:** C) Earth Science

Earth Science includes paleontology, which is the study of fossils and the history of our planet.

**2. True or False: A scientist studying how a ladybug breathes is practicing 'Physical Science' because the ladybug is moving.**

**Answer:** B) False

Studying how a living thing breathes is part of Life Science or Biology, not Physical Science.

**3. If you are trying to invent a new glue that is stronger than any other, you are mostly using \_\_\_\_\_ because you are mixing materials to see how they change.**

**Answer:** B) Chemistry

Chemistry is the study of matter and how different substances react and change when mixed.

**4. Imagine a scientist is designing a special suit that helps a diver stay warm in freezing ocean water. Which two branches are they combining?**

**Answer:** D) Biology and Physics

They need Biology to understand the human body and Physics to understand how heat moves through materials.

**5. True or False: A scientist who tracks a hurricane to warn people to stay safe is working in a branch of Earth Science.**

**Answer:** A) True

Meteorology, the study of weather and the atmosphere, is a major part of Earth Science.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**6. When a scientist uses a giant telescope to look for planets that might have water, they are working in the field of \_\_\_\_\_.**

**Answer:** C) Astronomy

Astronomy is the study of everything outside of Earth's atmosphere, including planets and stars.

**7. Which of these scientists is solving an 'Environmental Science' problem?**

**Answer:** C) Someone finding a way to clean trash out of the ocean

Environmental science focuses on how humans affect the world and how we can protect nature.

**8. A scientist is testing why a magnet can pull a paperclip through a piece of paper. This study of forces and energy is called \_\_\_\_\_.**

**Answer:** A) Physics

Physics is the branch of science that deals with energy, motion, and forces like magnetism.

**9. True or False: If you are studying how smoke from a factory affects the health of local birds, you are using both Life Science and Environmental Science.**

**Answer:** A) True

This crosses branches because it looks at living things (Biology/Life Science) and human impact on nature (Environmental Science).

**10. You see a scientist wearing a hard hat, looking at crystals inside a cave. What is their most likely branch of study?**

**Answer:** B) Earth Science

Earth Science involves studying the solid parts of the Earth, including rocks, minerals, and caves.