

Name: _____ Date: _____

Crack the Code of the Natural World: A 4th Grade Science Quest

Learners strengthen their ability to categorize scientific phenomena by analyzing real-world scenarios across the various domains of scientific inquiry.

1. An engineer is testing a new magnet to see if it can lift heavy scrap metal. Which branch of science is most focused on the forces of magnetism and motion?

- A. Biology
- B. Physics
- C. Earth Science
- D. Astronomy

2. A scientist who spends their day identifying different types of minerals and studying how mountains form is working in the field of _____.

- A. Chemistry
- B. Botany
- C. Earth Science
- D. Physics

3. True or False: A scientist studying how a honeybee colony survives the winter is practicing Biology.

- A. True
- B. False

4. If you are trying to figure out why a new type of plastic melts at a certain temperature, you are investigating the properties of matter. What branch is this?

- A. Environmental Science
- B. Chemistry
- C. Astronomy
- D. Geology

5. To understand how the rings of Saturn were formed, a scientist would use the tools and knowledge of _____.

- A. Astronomy
- B. Meteorology
- C. Biology
- D. Chemistry

6. True or False: An Environmental Scientist would be the best person to consult if a city wanted to reduce the amount of trash ending up in the ocean.

- A. True
- B. False

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7. Zora is watching the clouds to predict whether a thunderstorm will happen this afternoon. Which specific area of Earth Science is she using?

- A. Paleontology
- B. Meteorology
- C. Oceanography
- D. Zoology

8. A team discovers a dinosaur bone buried deep in the desert. They are using _____ to understand life from millions of years ago.

- A. Physics
- B. Chemistry
- C. Biology
- D. Astronomy

9. True or False: Physics is the branch of science that explains why your bike slows down when you stop pedaling due to friction.

- A. True
- B. False

10. When a scientist mixes two clear liquids and they suddenly turn bright blue, they are most likely observing a reaction in which field?

- A. Earth Science
- B. Biology
- C. Chemistry
- D. Physics