

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

## Sifting Secret Species: Super 5th Grade Science Quiz

How do bioluminescent bacteria differ from deep-sea sponges? Analyze complex traits across 10 challenging classification scenarios.

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**1. An explorer finds a multicellular organism in a dark cave. It has no cell walls, cannot make its own food, and moves toward sound. To which kingdom does it belong?**

- A. Fungi
- B. Plantae
- C. Animalia
- D. Protista

**2. Scientists are debating a new organism. It is a single-celled eukaryote that acts like a predator but also contains chloroplasts. This 'mixed-up' organism likely fits into Kingdom \_\_\_\_\_.**

- A. Archaea
- B. Bacteria
- C. Fungi
- D. Protista

**3. True or False: If two organisms belong to the same 'Order,' they must also belong to the same 'Class' and 'Phylum.'**

- A. True
- B. False

**4. A scientist discovers a microscopic organism living in a boiling-hot volcanic vent. It lacks a nucleus and has a unique cell membrane structure. What is the most likely Domain?**

- A. Eukarya
- B. Archaea
- C. Bacteria
- D. Animalia

**5. The scientific name for a Red Maple is 'Acer rubrum.' In this two-part naming system, the word 'Acer' represents the organism's \_\_\_\_\_ level.**

- A. Species
- B. Family
- C. Genus
- D. Order

**6. True or False: Most organisms in Kingdom Fungi eat their food by capturing it and digesting it internally like animals do.**

- A. True

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B. False

**7. Why is 'cell structure' considered a more reliable way to classify organisms than 'habitat' (where they live)?**

- A. Habitat changes every season.
- B. Unrelated species can live in the same place but have different DNA.
- C. Microscopes are better than maps.
- D. Habitats only exist for animals, not plants.

**8. If you are comparing a jellyfish and a blue whale, they both belong to the same Kingdom (Animalia). To find where they first differ, you would look at the \_\_\_\_\_ level.**

- A. Domain
- B. Phylum
- C. Genus
- D. Species

**9. True or False: All organisms in the Kingdoms Plantae and Animalia are eukaryotic.**

- A. True
- B. False

**10. You observe a specimen under a microscope. It has a cell wall made of cellulose and is multicellular. Which of these is a likely evaluation of this organism?**

- A. It is a mushroom (Fungi).
- B. It is a fern (Plantae).
- C. It is a bacteria (Bacteria).
- D. It is a worm (Animalia).