

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

## Pizza Party Phylogeny: A 6th Grade Classification Challenge

Can you spot the difference between a mushroom topping and a mozzarella producer? Analyze cellular traits to organize Earth's organisms in this advanced formative assessment.

---

**1. Imagine you discover a multicellular organism in a hydrothermal vent that lacks a cell wall and consumes other organisms for energy. In which Kingdom would this most likely be placed?**

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

**2. Organisms classified within the same Order must also belong to the same Class.**

- A. True
- B. False

**3. A scientist finds a single-celled organism with a nucleus that uses a whip-like tail to move. This organism belongs in Kingdom \_\_\_\_\_.**

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

**4. Two organisms are in the same Genus but different Species. Which statement best describes their relationship?**

- A. They cannot occupy the same habitat.
- B. They share very recent common ancestry but cannot interbreed.
- C. They have no shared physical characteristics.
- D. They belong to different Families.

**5. Binary fission is a reproductive strategy found only in Kingdom Plantae.**

- A. True
- B. False

**6. The primary chemical difference between the cell walls of Fungi and the cell walls of Plants is that Fungi use \_\_\_\_\_.**

- A. Cellulose
- B. Peptidoglycan
- C. Chitin
- D. Lipids

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

**7. Which taxonomic level provides the most specific information about an organism's evolutionary adaptations to its local environment?**

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

**8. Archaea are more closely related to Eukarya than they are to Bacteria at the molecular level.**

- A. True
- B. False

**9. Organisms that must consume other organisms for energy are called \_\_\_\_\_.**

- A. Autotrophs
- B. Heterotrophs
- C. Prokaryotes
- D. Phototrophs

**10. If you are sorting organisms by their method of nutrient absorption, which Kingdom would consist entirely of decomposers that digest food outside their bodies?**

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