

What are the Kingdoms of Life?

Worksheet

The kingdoms of life are the major groups organisms are sorted into below Domain - traditionally Monera (bacteria), Protista, Fungi, Plantae, and Animalia - based on cell structure, body organization, and nutrition.

Questions

1. Which kingdom consists of prokaryotic organisms?
 - A) Protista
 - B) Fungi
 - C) Monera
 - D) Animalia
2. What distinguishes Fungi from Plantae?
 - A) Fungi are prokaryotic
 - B) Fungi absorb nutrients rather than photosynthesize
 - C) Fungi have no cell wall
 - D) Fungi are unicellular only
3. Which kingdom is home to amoebas and algae?
 - A) Animalia
 - B) Protista
 - C) Monera
 - D) Fungi
4. What do all organisms in Kingdoms Protista, Fungi, Plantae, and Animalia have in common?
 - A) They are all multicellular
 - B) They all photosynthesize
 - C) They are all eukaryotic (have a true nucleus)
 - D) They all lack cell walls
5. Which kingdom does a mushroom belong to, and why?
6. Classify an amoeba - which kingdom and why?
7. Classify E. coli bacteria - which kingdom and why?
8. Define: What are the five kingdoms of life?
9. Define: What distinguishes Monera from the other kingdoms?
10. Define: How is Fungi different from Plantae?

Answer Key

1. C) Monera - Monera organisms (bacteria) are prokaryotic - they lack a true nucleus.
2. B) Fungi absorb nutrients rather than photosynthesize - Fungi are heterotrophic decomposers/absorbers with chitin cell walls, unlike photosynthetic plants.
3. B) Protista - Protista is the diverse kingdom of mostly single-celled eukaryotes that don't fit elsewhere.
4. C) They are all eukaryotic (have a true nucleus) - Unlike Monera, these four kingdoms all consist of eukaryotic cells with a membrane-bound nucleus.
5. Mushrooms are multicellular eukaryotes Their cell walls are made of chitin, not cellulose They absorb nutrients from dead matter instead of photosynthesizing Kingdom Fungi
6. An amoeba is a single-celled eukaryote It is not a plant (no cell wall/chlorophyll), animal, or fungus Kingdom Protista
7. E. coli cells have no nucleus (prokaryotic) They are unicellular and reproduce by binary fission Kingdom Monera (Bacteria)
8. Monera, Protista, Fungi, Plantae, and Animalia.
9. Monera organisms are prokaryotic - they lack a nucleus and membrane-bound organelles; all other kingdoms are eukaryotic.
10. Fungi absorb nutrients from their surroundings (heterotrophic, cell walls of chitin); plants photosynthesize (autotrophic, cell walls of cellulose).

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