

Animal Classification Worksheet

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Part 1: Building a Foundation
What is the primary purpose of animal classification?
Hint: Think about why scientists classify animals.
 A) To create more species B) To organize biodiversity and understand evolutionary relationships C) To eliminate extinct species D) To increase the number of animal kingdoms
Which of the following are major taxonomic ranks? (Select all that apply)
Hint: Consider the hierarchy used in biological classification.
A) Domain B) Species C) Phylum D) Color
Explain the concept of binomial nomenclature and its importance in species identification.
Hint: Consider how species are named and why this system is used.

List the major kingdoms of life and provide one key characteristic for each.



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Hint: Think about the different forms of life and their defining traits.	
1. Animalia	
2. Plantae	
3. Fungi	
4. Protista	
Which kingdom is characterized by organisms that are primarily multicellular, have cell walls, a perform photosynthesis?	and
Hint: Consider which kingdom includes plants.	
○ A) Animalia	
O B) Plantae	
○ C) Fungi	
O) Protista	
Part 2: Application and Analysis	
If a new species is discovered with feathers and the ability to fly, to which class is it most likely belong?	/ to
Hint: Think about the characteristics of birds.	
○ A) Mammalia	
B) Reptilia	
C) Aves	
O) Amphibia	
How can classification help in conservation efforts? (Select all that apply)	
Hint: Consider the role of classification in understanding species.	
A) Identifying endangered species	

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☐ B) Understanding habitat requirements
C) Increasing genetic diversity artificially
D) Tracking biodiversity changes
Provide an example of how classification is used in ecological studies to understand an ecosystem.
Hint: Think about how scientists categorize organisms in an ecosystem.
Which of the following best describes the relationship between a genus and a species?
Hint: Consider how species are grouped within a genus.
A) A genus is a subgroup of a species
B) A species is a subgroup of a genus
C) They are equivalent
O) A genus and species are unrelated
Analyze the following statements and identify which are true about evolutionary relationships. (Select all that apply)
Hint: Think about how organisms are related through evolution.
A) All organisms within a phylum share a common ancestor
☐ B) Physical traits are the only method to determine evolutionary relationships
C) Genetic analysis can reveal hidden evolutionary links
D) Evolutionary relationships are static and unchanging
Part 3: Evaluation and Creation
Which method would be most effective in revisiting the classification of a species that has shown
significant genetic divergence from its relatives?
Hint: Consider the importance of genetic data in classification.
○ A) Observating physical traits only

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B) Conduct genetic analysisC) Rely on historical classification dataD) Ignore the divergence
Evaluate the following scenarios and determine which could lead to a reclassification of a species. (Select all that apply)
Hint: Think about factors that influence classification.
 A) Discovery of new fossil evidence B) Changes in environmental conditions C) Advances in genetic sequencing technology D) Political decisions
Propose a hypothetical scenario where a new classification system might be needed. Explain the factors that would necessitate this change and how it could impact scientific understanding.
Reflect on how the classification of organisms has evolved over time with the advent of genetic research. Discuss the implications of these changes for future scientific discoveries.
Hint: Think about the relationship between genetics and classification.

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