

NAME \_\_\_\_\_

CLASSIFICATION ?'s  
Chapter 18 pp 337-350

MULTIPLE CHOICE: CIRCLE ALL THAT ARE TRUE.  
(THERE MAY BE MORE THAN ONE RIGHT ANSWER).

Which of the following statements are true about ARISTOTLE?

- A. He was a Greek philosopher and scientist who first classified organisms.
- B. He classified plants by their morphology and animals by where they lived.
- C. He divided living things into two groups (plants or animals)
- D. His system included a 7 level hierarchy and binomial nomenclature

Which of the following statements are true about CAROLUS LINNAEUS?

- A. He was a Swedish naturalist who devised a classification system based on morphology
- B. He classified plants by their morphology and animals by where they lived.
- C. He grouped divided living things into two groups (plants or animals)
- D. His system included a 7 level hierarchy and binomial nomenclature

\_\_\_\_\_ is the study of the internal and external structure and form of an organism.

- A. Taxonomy
- B. Morphology
- C. Phylogeny
- D. Binomial nomenclature

The branch of biology that names organisms and groups them according to their characteristics and evolutionary history is called \_\_\_\_\_

- A. Taxonomy
- B. Morphology
- C. Phylogeny
- D. Binomial nomenclature

\_\_\_\_\_ is a system of naming which organisms are given a 2 part (genus and species) scientific name.

- A. Taxonomy
- B. Morphology
- C. Phylogeny
- D. Binomial nomenclature

An organism's evolutionary history is called its \_\_\_\_\_.

- A. Taxonomy
- B. Morphology
- C. Phylogeny
- D. Binomial nomenclature

ALL of the organisms you will dissect in ZOOLOGY this semester belong to which of the 6 kingdoms?

- A. Archaeobacteria
- B. Eubacteria
- C. Protista
- D. Animalia
- E. Plantae
- F. Fungi

Which of the following rules apply to writing scientific names?

- A. The genus name is always capitalized.
- B. The species name is always capitalized.
- C. Both genus and species names are capitalized.
- D. Both names are underlined AND *written in italics*.
- E. Both names are underlined OR *written in italics*.

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IDENTIFY THE FOLLOWING:

USE H for Homologous structures

Use A for Analogous structures

- \_\_\_\_\_ Structures that have their origins in the same embryonic tissue
- \_\_\_\_\_ Structures that may have a similar function but different embryonic origins
- \_\_\_\_\_ Examples include a bird wing and an insect wing
- \_\_\_\_\_ Examples include a bird wing, whale flipper, and human arm
- \_\_\_\_\_ Suggests a shared common ancestor
- \_\_\_\_\_ Does NOT suggest a shared common ancestor

\* \* \* \* \*

MATCHING:

MATCH classification system with its description.

- |  |                     |
|--|---------------------|
| _____ System that groups organisms based on ribosomal RNA  | A. 6 Kingdom system |
| _____ System that groups and classifies organisms Based on shared "derived characters"   | B. 3 Domain system  |
| _____ System that groups organisms based on multiple kinds of evidence including: fossil record, morphology, embryology, chromosomes, and macromolecules | C. Cladistics       |

## SHORT ANSWER:

The correctly written scientific name for humans is \_\_\_\_\_  
(Remember the rules for writing scientific names!)

Name the 6 kingdoms used by modern taxonomists to classify organisms today.

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Name 5 kinds of scientific evidence that might be used to classify an organism today using the 6 Kingdom system.

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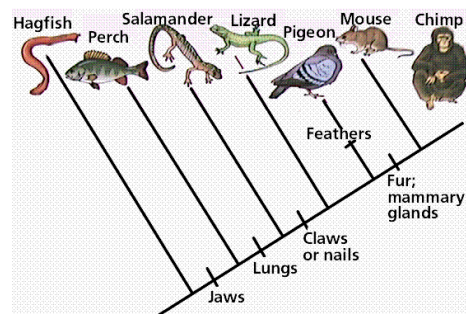
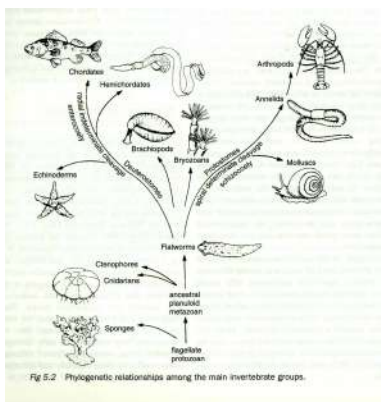
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LABEL THE TWO KINDS OF DIAGRAMS SHOWN BELOW THAT ARE USED TO SHOW EVOLUTIONARY RELATIONSHIPS



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Which of these is used by the 6 Kingdom system? \_\_\_\_\_

Which of these is used by CLADISTICS? \_\_\_\_\_

Name the 7 levels in Linnaeus's hierarchy used to classify organisms

Write a silly phrase below  
to help you remember  
Linnaeus's hierarchy

List the 7 levels in Linnaeus's  
hierarchy in order from most  
to least inclusive

_____	K	_____
_____	P	_____
_____	C	_____
_____	O	_____
_____	F	_____
_____	G	_____
_____	S	_____

When classifying PLANTS the names of 2 of the hierarchy levels change:

PHYLUM changes to \_\_\_\_\_ and

SUBSPECIES changes to \_\_\_\_\_

Which language is used to write scientific names? \_\_\_\_\_