

Name:  
Date:

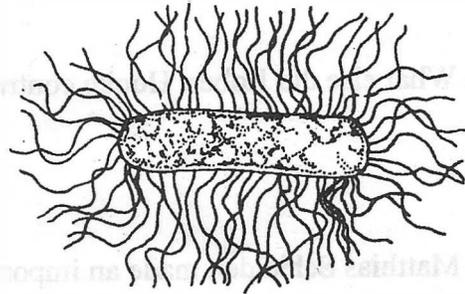
Do Now # 2.4

Period:  
Date:

- Which groups are arranged in correct descending order according to a modern classification system?  
(1) kingdom, genus, phylum, species  
(2) phylum, kingdom, species, genus  
(3) kingdom, phylum, genus, species  
(4) phylum, genus, species, kingdom
- In one modern classification system, organisms are grouped into five  
(1) kingdoms (3) genera  
(2) phyla (4) species
- Two organisms can be considered to be of different species if they  
(1) cannot mate with each other and produce fertile offspring  
(2) live in two different geographical areas  
(3) mutate at different rates depending on their environment  
(4) have genes drawn from the same gene pool
- In which kingdom is an organism classified if it *lacks* a membrane separating most of its genetic material from its cytoplasm?  
(1) protist (3) plant  
(2) monera (4) animal
- Which is true of organisms that are classified in the same genus?  
(1) They must be in the same phylum, but may be of different species.  
(2) They must be of the same species, but may be in different phyla.  
(3) They must be in the same phylum, but may be in different kingdoms.  
(4) They must be in the same kingdom, but may be in different phyla.
- Ursus horribilis*, the scientific name for the grizzly bear, refers to the bear's  
(1) kingdom and phylum (3) genus and phylum  
(2) kingdom and species (4) genus and species

- Acer saccharum* is the scientific name for the sugar maple tree. *Acer* is the name of the tree's  
(1) genus (3) species  
(2) phylum (4) kingdom

Base your answers to questions 8 and 9 on the diagram below and on your knowledge of biology.



- The organism in the diagram is classified as *Proteus vulgaris*. The term "vulgaris" refers to this organism's  
(1) species (3) family  
(2) genus (4) phylum
- This organism is classified in Kingdom Monera because it is  
(1) unicellular and lacks a nucleus  
(2) multicellular and lacks a nucleus  
(3) unicellular and contains a nucleus  
(4) multicellular and contains a nucleus
- Which is the most specific term used to classify humans?  
(1) sapiens (3) homo  
(2) animal (4) chordate

# Homework # 2.4

## Cell Theory Worksheet (15 points)

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

Using your class notes answer the following questions:

1. What was special about Robert Hooke?

2. What else did Robert Hooke contribute to science?

3. Matthias Schleiden made an important statement in 1838. What was it?

4. In 1839 Theodor Schwann made another important statement. What was it?

5. What is the "cell theory"?

6. Who provided the proof for the third statement in the cell theory?

7. What three things do all cells have in common?

