

Name: _____

Date: _____

Life Science

Period: _____

Activity: **Classifying Living Things**

Directions:

1. Remove the eight organism cards from the envelope.
2. Using handout #1, "**Key to the Kingdoms of Life**", sort your organism cards into their proper kingdoms. You should have six groups, representing each kingdom of living things.
3. When you believe that you have correctly sorted all eight cards, raise your hand and ask your teacher to check your groups.
4. Record the descriptions used in handout #1 to form a kingdom summary for all six kingdoms on the correct **Kingdom Data Table** (your worksheet packet).
5. Record the card number and organism name on the correct **Kingdom Data Table**.
6. Using handout #2, "**Key to the Kingdom Archaeobacteria...**", identify the group/phylum to which each of the eight organism cards belong. Ask your teacher if you are unsure of any characteristics.
7. Record the group/phylum in your packet, and record the features that led you to classify the organism in that group.
8. Return the organism cards to the envelope and begin the post-lab questions below.

Post-Lab Questions:

1. List two similarities and two differences between the organisms found in the Kingdom Archaeobacteria and the Kingdom Eubacteria:

Similarities

Differences

1. _____

1. _____

2. _____

2. _____

2. Which kingdom(s) include organisms that are **all multicellular** (composed of more than one cell)?

3. Which kingdom(s) include organisms that are **all unicellular** (composed of only one cell) and are microscopic?

4. Which kingdom(s) include organisms that may be multicellular and unicellular?

5. All living things get energy either as **heterotrophs** (they feed on each other), or as **autotrophs** (they make their own food). Which kingdoms contain only **heterotrophs**?

6. Which kingdom(s) contain only **autotrophs**?

7. Which kingdom(s) contain organisms that can get energy by either method?

8. Based on the method of obtaining energy, which kingdom(s) of living things would be considered **decomposers** and assist in recycling nutrients within a given community of organisms?

9. Based on the method of obtaining energy, which kingdom(s) of living things would be considered **producers** (*make their own food*) and be the base of any food web or chain within given community of organisms?

10. Based on the method of obtaining energy, which kingdom(s) of living things would be considered **consumers** (*eat another organism for food*) within a given community of organisms?