## Name

Six Kingdoms Coloring Worksheet

SA

**Learning Target: St. 5 Obj. 3a** Identify types of organisms that are not classified as either plant or animal. **3b b.** Arrange organisms according to kingdom (i.e., plant, animal, monera, fungi, protist).

**Directions**: Read the following and then answer the questions by coloring the picture on the back. Your answers will be shown by how you color.

Traditionally, living things were divided into two kingdoms, plants and animals. This was great for a long time. Some people still like to think of it that way. However, as our knowledge increases, and as the science of biology continues to develop, we have come to realize that two kingdoms are not enough for all organisms to fit into. For example, there is a single-celled organism called *Euglena*. This organism has some characteristics of a plant and some characteristics of an animal. When no one knew where to put the crazy thing, scientists decided it was time for more kingdoms. As time went on, other organisms were discovered with weird traits that made them difficult to classify as either plant or animal, making it absolutely necessary to have more than two kingdoms.

Now that we know more about all sorts of strange creatures, most scientists agree that it makes sense to divide living things into five kingdoms. Remember, though, that kingdoms are purely human inventions. No other living organism, as far as we can tell, cares a bit what kingdom it is in. As the future of biology unfolds, we may see evidence for division into more than five kingdoms. (Various biologists have already suggested six, seven, and eight kingdoms.)

## Kingdom Archaebacteria

This kingdom includes bacteria and interesting little creatures called cyanophytes, also called blue-green algae. They are unicellular (single-celled) and prokaryotic, meaning that there is no nucleus inside the cell. Most biologists believe that the first living things on earth were probably similar to today's bacteria. Another cool thing about this group of organisms is that they are adapted to almost any type of environment, even if it is extreme by our standards (hot, cold, salty, etc.) Bacteria are just about everywhere on Earth

## **Kingdom Eubacteria**

This kingdom also includes bacteria. This group of bacteria

is the true bacteria. They are unicellular and prokaryotic. A cool thing about this group of bacteria is that they can live inside you. Some examples include e-coli (lives in intestines), staphylococcus (lives on your skin), and streptococcus (lives on your skin and in your throat).

Hour

## **Kingdom Protista**

Scientists created this kingdom so they could put organisms in it that didn't fit anywhere else. Most protists are singlecells, but their cells are different from kingdom Monera because the cells have a nucleus like plant and animal cells. In fact, some of these organisms kind of act like plants and some of them kind of act like animals. Some of them are like both. That's why they're weird. *Euglena* is plantlike and animal-like. *Paramecium* is a unicellular organism that moves itself rapidly through water by using thousands of little cilia. The amoeba changes shape constantly and flow around food to engulf it. Like a little blob.

## Kingdom Fungi

This kingdom includes yeasts, molds, mushrooms, and mildews. Most fungi are multicellular (made of many cells) except yeast, which are unicellular. Fungi live exclusively by absorbing nutrients, usually by secreting digestive enzymes to break down their food so it can be absorbed more easily.

## Kingdom Animalia

Most members of this kingdom are familiar to you. Some may be kind of tricky though. Such things as sponges, sea anemones, sea cucumbers may not be as easily recognized, but are nonetheless still animals. All animals are multicellular. Animal cells lack a cell wall.

## **Kingdom Plantae**

This includes plants (oddly enough!) So things like mosses, pine trees, and roses fit here. There's also a bunch of algae in this kingdom. Plants are usually multicellular, and their

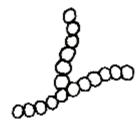
Use the reading above to find the answers to the following questions. Then follow the directions so you'll know how to color the picture on the back. Your answers will be shown by how you color.		
1.	What is the single-celled organism that is animal and plant-like called?	Color it blue
2.	How many kingdoms are there? Write the number in the to	op left corner on the back side of this sheet.
3.	What kingdom did the first organisms on Earth belong to?	Color everything in this kingdom yellow.
4.	What kingdom are true bacteria in? Color the word or	ange.
5.	What kingdom do Paramecium and Euglena belong to?	_ Color the word red.
6.	What protist changes shape constantly and flows around its food to engulf it?	Color it pink.
7.	What kingdom are fungi, molds and yeast in? Color the	e word green.
8.	What organisms have cellulose in their cell walls?	Color them green and brown.

9. Which kingdoms have organisms that are multi-cellular? \_\_\_\_\_\_ Circle all of them with orange.

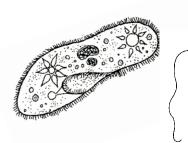
10. What kingdom includes sea anemones, snails, humans, insects and birds? \_\_\_\_\_\_ Color the word purple.

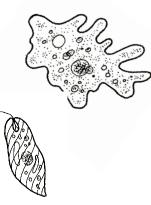
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Kingdom Archaebacteria









Kingdom Eubacteria





IKingdom Plantae

