Name



# Six Kingdoms Coloring Worksheet



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. 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. As time went on, other organisms were discovered with weird traits that made them difficult to classify as either

Most scientists agree that it makes sense to divide living things into six 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 six kingdoms. (Various biologists have already suggested seven and eight kingdoms.)

Kingdom Archaebacteria
This kingdom includes bacteria and interesting little 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 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)

### Kingdom Protista

Kingdom Protista
Scientists created this kingdom so they could put organisms in it that didn't fit anywhere else. Most protists are single-celled. The cells have a nucleus like plant and animal cells. 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 animallike. 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. engulf it. Like a little blob.

Hour

## 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

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.

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 cells have a cell wall, unlike animal cells. Their cell walls are made of a substance called cellulose.

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.	
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 top left corner on the back side of this sheet.	
3. What kingdom did the first organisms on Earth belong to?	
4. What kingdom are true bacteria in? Color the word orange	ge.
5. What kingdom do Paramecium and Euglena belong to?	Color the word red.
<ol><li>What protist changes shape constantly and flows around its food to engulf it? _</li></ol>	Color it pink.
7. What kingdom are fungi, molds and yeast in? Color the w	ord green.
8. What organisms have cellulose in their cell walls? Co	olor them green and brown.
Which kingdoms have organisms that are multi-cellular?	
10. What kingdom includes sea anemones, snails, humans, insects and birds?	Color the word purple.