

Classification of Life

If your worksheet is completed, you are allowed to make corrections or additions just like we do on notes. Also double-check your spelling!

If it is not done, you need to finish it on your own time and then see me for the answer key to check your work.

Site #1: Biological Classification

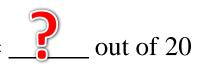
- 1. What does the word "species" mean in Latin? **KIND**
- 2. What two terms are used for an organism's binomial name? GENUS and SPECIES
- 3. What is the scientific name for a red maple? <u>Acer rubrum</u>
- 4. What do all trees in the Dicotyledoneae subclass have in common? **EMBRYO HAS TWO SEED LEAVES**

Site #2: Teacher's Domain - Animal Classification Game

- **1.** Click the link for "Animal Classes" to help you identify each animal group by its description.
- **INSECTS** Cold-blooded invertebrates that have 3 body segments and 3 pairs of legs.
- **MAMMALS** Warm-blooded vertebrates that have hair or fur, give birth to live young, and nurse their young with milk.
- **BIRDS** Warm-blooded vertebrates that have feathers and wings as well as lay eggs.
- **REPTILES** Cold-blooded vertebrates that have scales, dry skin, and usually lay eggs.
- **AMPHIBIANS** Cold-blooded vertebrates that have moist, smooth skin, live on land and water, and have webbed feet.

2. Click the link for "Classification Games" and try each one.

African Savannah = 2 out of 20 North American Forest = 2 out of 20



Site #3: A Touch of Class

Category	Points Earned	Points Missed	Total Points

What categories did you have?

Were they any organisms that you classified incorrectly? Why?

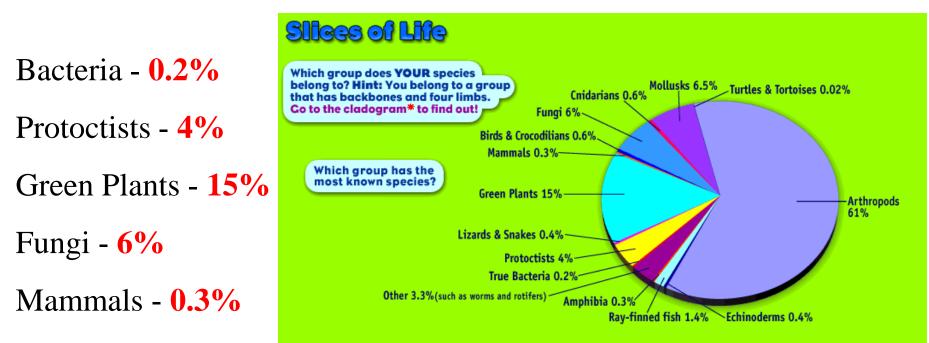
Site #4: Ology: The Tree of Life Read the information to answer the first question.

1. What type of diagram do scientists use to show how species are related? **CLADOGRAM**

2. Click "*EXPLORE THE TREE OF LIFE CLADOGRAM*" button.

- (1) What do we call the chemical that cells need to work and reproduce? **DNA**
- (2) What structure do eukaryotes have in their cells? NUCLEUS
- (3) What protein do all animals have in common? **COLLAGEN**
- (4) What do all vertebrates have in common? **BACKBONES**
- (5) What term refers to animals with four limbs and moveable joints? **TETRAPODS**

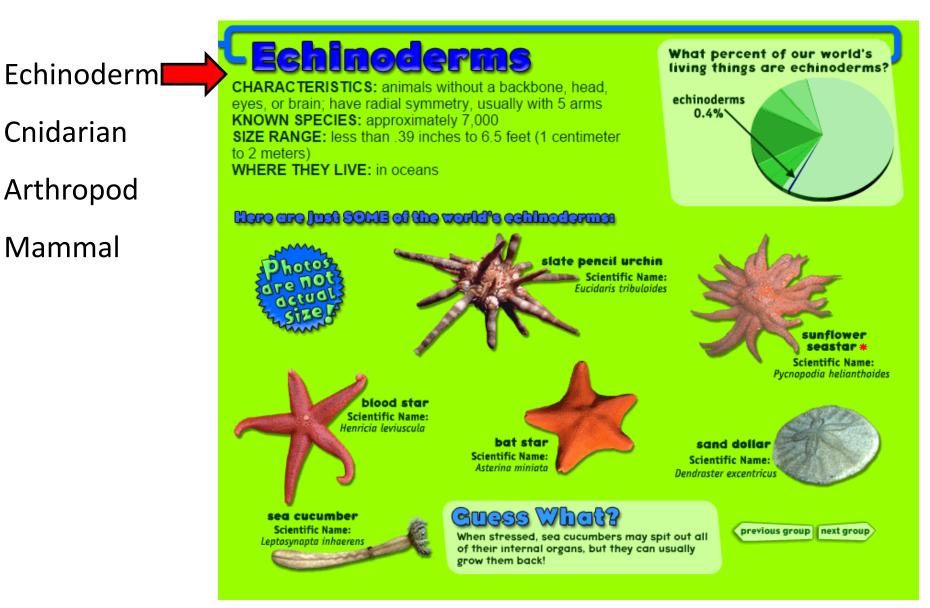
6) Click "*FIND OUT*". What percentage of the world's organisms are classified in each group?



Quick Questions: Which is larger: fungi or mammals? Which vertebrate group in the graph is the largest?

(7) Which animal group makes up the largest percentage of the world's organisms? **ARTHROPODS**

(8) Click "*CLADOGRAM*" at the top to return to the diagram. Give an example of each type of organism.



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Echinoderm



Arthropod

Mammal



and to capture prey **KNOWN SPECIES:** approximately 10,000 SIZE RANGE: Less than .04 inches to over 164 feet (1 miilimeter to over 50 meters) WHERE THEY LIVE: in oceans; a few in fresh waters

Here are just SOME of the world's enidarians:



flower coral Scientific Name: Eusmilia fastigiata

brain coral



symmetrical Scientific Name: Diploria strigosa



eggyolk jellyfish Scientific Name: Phacellophora camtschatica

tube coral (Scientific Name: Dendrophyllia californica

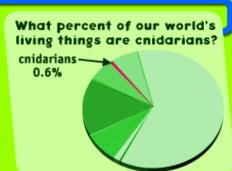
tube anemone

Pachyceriathus fimbriatus

Scientific Name:

MAGGG

Coral reefs are among the largest structures made by living organisms.





Scientific Name: Gorgonia flabellum

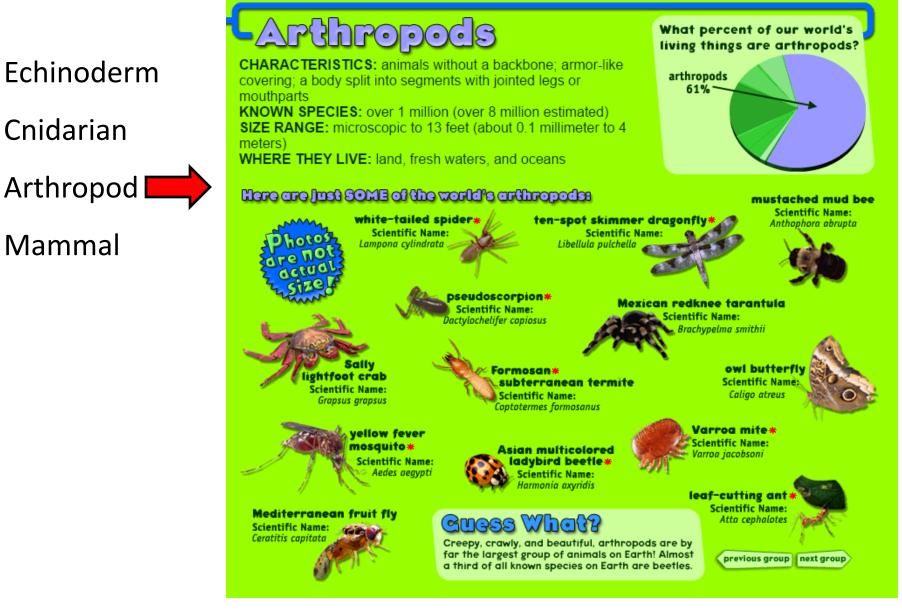


swimming anemone Scientific Name: Stomphia coccinea

Portuguese man-of-war+ Scientific Name: Physalia physalis

previous group next group

(8) Click "*CLADOGRAM*" at the top to return to the diagram. Give an example of each type of organism.



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Echinoderm

Cnidarian

Arthropod



-Mammals

CHARACTERISTICS: animals with a backbone; produce milk for their young; body covered with hair KNOWN SPECIES: approximately 4,600 SIZE RANGE: Less than 2.4 inches to more than 108 feet (6 centimeters to more than 33 meters) WHERE THEY LIVE: mainly on land; some live in oceans and fresh waters

Here are just SOME of the world's mammals:



What percent of our world's

living things are mammals?

mammals

0.3%~

Site #5: Ology: It Takes All Kinds to Make A World.

Into which <u>kingdom</u> does each organism belong? After you find the right one, write the name of the kingdom on the line.

Blue-Green Alga **TRUE BACTERIA** Extreme Microbe **ARCHAEA** Red Mangrove - **PLANT** Spiny Lobster - **ANIMAL** Giant Kelp - **PLANT** Tube Worms - **ANIMAL**

Fungus - **FUNGI** Diatom - **PROTISTS**

