Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Characteristics of Life WebQuest

**Directions:**

1. Begin at: [**KidBiology.com**](http://www.kidsbiology.com/)
2. Using the information on this website, you are going to answer the questions on your assignment.  The website can be confusing at first - Ms. Mettler will show you how to navigate through the commercial advertisements and where to find the science information you are looking for.
3. Once you are on the KidBiology site, click on [**BIOLOGY**](http://www.kidsbiology.com/biology_basics/index.php) **in the red navigation area to the left.**
4. You can read about Biology, and then at the bottom of the page, it asks you: "What Would You Like To Learn About?"  [**CLICK ON "What Are Living Things?"**](http://www.kidsbiology.com/biology_basics/characteristics_life/characteristics_of_life_what_is_life_1.php) and now you are ready to begin discovering what makes you and all the animals, plants, and millions of other living things on this planet a living thing.
5. **AT THE BOTTOM of each page**, you will need to click on the **PURPLE arrow** that says "NEXT" to take you to the next page.  Continue to do that until you have finished this entire section on WHAT ARE LIVING THINGS. (Questions #1-11)
6. To make it easier for you, as you do the questions, you will know when to click on and move to the next screen because there is an arrow 🡺 on your paper telling you to do so.
7. After the last purple arrow, you will be taken back to the [**"What Would You Like To Learn About?" page**](http://www.kidsbiology.com/biology_basics/index.php)**.**
8. Go to [**"Needs of Living Things"**](http://www.kidsbiology.com/biology_basics/needs_living_things/living_things_have_needs1.php)and continue with questions #12-20.

**WebQuest Questions #1-11: Characteristics of Living Things – What is Life?**

1) Read the riddle and the answer to the riddle. You may need to read it again to really get it. Write one or two sentences on your thoughts on that riddle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_🡺

2) Is life just on the surface of the planet? Explain. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3) What are all living things made of? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4) What is the man using to see them at the bottom of the page? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡺

5) Living things can move. We move to avoid danger, to walk, run, play, eat, or even move in our sleep. Give 3 more ways OTHER living things might move in response to their environment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_🡺

6) Living things perform \_\_\_\_\_\_\_\_\_\_\_\_\_\_ reactions, which are necessary for life. Some of this include breaking down \_\_\_\_\_\_\_\_\_\_\_ so that it can be used for \_\_\_\_\_\_\_\_\_\_\_\_\_, creating food, building new \_\_\_\_\_\_\_\_\_\_\_\_, repairing \_\_\_\_\_\_\_\_\_\_\_ parts and more.

7) All living things \_\_\_\_\_\_\_\_\_\_ and develop. Many living things begin as small infant-like creatures and will become larger through time. Other living things start their life in a completely different form, and then change dramatically as they grow. Name 2 living things that begin as a completely different form, and then turn into something new: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8) A major characteristic that non-living things do not have is that they cannot respond to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ around them. Our body does this to keep us healthy. What does our body do in response to germs and dust trying to enter our body? \_\_\_\_\_\_\_\_\_\_\_ 🡺

9) What is reproduction? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_10) By reproducing, what are living things passing on? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11) What is a “lifespan”? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Give the approximate lifespan of: some bacteria/insects - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ some elephants - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ some humans - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ some bristlecone pine trees - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

🡺 **Now click on “Needs of Living Things” and begin the next set of questions.**

**WebQuest Questions #12-20: Needs of Living Things**

12) Living things need food. Plants can produce their own food, so they are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, whereas kittens, puppies, and even people, cannot make their own food, so they are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, since they have to consume or eat the producers (or other consumers).

13) Although living things may have many different needs, all life has some of the same needs in common: a) \_\_\_\_\_\_\_\_\_\_\_\_\_\_, b) \_\_\_\_\_\_\_\_\_\_\_\_\_, c) \_\_\_\_\_\_\_\_\_\_\_\_\_, d) \_\_\_\_\_\_\_\_\_\_\_\_, e) \_\_\_\_\_\_\_\_\_\_\_\_, f) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. 🡺

14) Living things use energy to \_\_\_\_\_\_\_\_\_\_\_, to \_\_\_\_\_\_\_\_\_\_\_\_\_ themselves, and to \_\_\_\_\_\_\_\_\_\_\_\_\_\_ around. The original source of this energy came from the \_\_\_\_\_\_\_\_\_\_\_\_.

15) Beginning with the plants’ use of sunlight, explain how the sun’s energy would be passed on to your body to use: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_🡺

16) All living things need food, which provides them with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and with the resources and raw materials they need to build their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, grow and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ damage. 🡺

17) All living things need water to survive. List 4 things water helps to do in your body:

a) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 b) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 c) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 d) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡺

18) Most living things use oxygen as the main ingredient in many of the chemical reactions needed for life. Organisms get oxygen from their environment in a variety of ways. How do many land animals get oxygen? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ How do ocean animals get oxygen? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡺

19) Read the entire page on LIVING SPACE and then answer this: Suppose this happened -a developer comes in and takes down half a forest to put up a shopping area. The animals (rabbits, squirrels, foxes, deer, etc.) and other organisms now have to live in half the area they originally lived in. Explain what can happen now that their living space and resources have been cut in half: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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20) Homeostasis is a big word that biologists use to indicate that an organism needs to keep conditions inside of itself the same, even though conditions outside are always changing. Name one way humans maintain homeostasis when our body temperature rises too high: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 What do dogs do when their body temperature rises? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_