

LEP Science

April 6

Objective: I can tell the difference between a living thing and non-living thing

The Characteristics of Life



All living things....



...no matter how different from each other they may be....



....share a set of common characteristics.



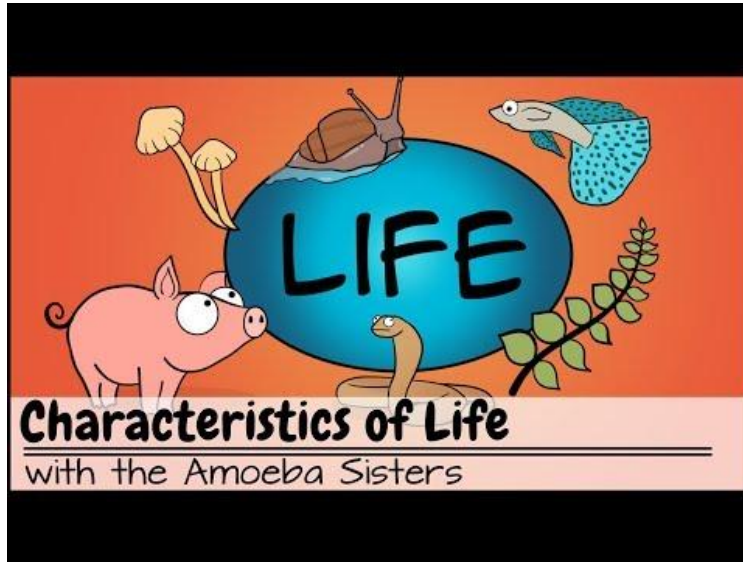
Lesson Activity

Copy the the chart found below into your notebook or on a piece of paper

Characteristic	Definition or description	Examples
Organization		
Homeostasis		
Metabolism		
Reproduction		
Growth and Development		
Response to Stimuli		
Evolution		

Lesson Activity

Watch the attached video. As you watch try to fill in the chart.



Completed Chart - How did you do?

Characteristic	Definition or description	Examples
Organization	Cells	Unicellular Multicellular
Homeostasis	Maintaining balance	Temperature or water balance
Metabolism	Energy/ATP	Photosynthesis or Cellular Respiration
Reproduction	DNA passed on	Bacteria split or sperm and egg unite to make a zygote
Growth and Development	Getting bigger and more complex	Baby pony growing up
Response to Stimuli	Reacting to something	Feeling of hunger or being scared
Evolution	Gene frequencies change over time	Adaptations

Practice with what you learned from the video

Identify the characteristic being described using one word from the word bank. (words may be used more than once or not at all). Write your answer on your paper.

1. “That boy shot up five inches in only one year”
2. “Our cat had a litter of kittens yesterday”
3. “My dog has become much less clumsy now that he is a year old.”
4. “Eat a good breakfast and you will be able to run longer.”
5. “When that car pulled in the driveway, my cat ran to hide under the porch.”
6. “Your body normally maintains a temperature of 98.6° F.”

Word Bank:

- *Organization
- *Reproduction
- *Homeostasis
- *Metabolism
- *Growth and Development
- *Response to stimuli
- *Evolution

More Practice

Which of the following is a **stimulus**, which is a **response?** Write your choice on your paper.

7. The bell ringing to dismiss from lunch
8. Your mouth watering at the sight of food on a plate.
9. A sudden drop in air temperature.
10. A flu virus entering your body.
11. Getting “butterflies” in your stomach before presenting in class.

Still more practice

Determine if each of the following describes a living or nonliving thing. Write your response on your paper.

12. Rust eating a hole in a metal bucket.

13. An apple on a tree

14. Bacteria

15. Lightning

Answers to your practice

1. Growth and development
2. Reproduction
3. Growth and development
4. Metabolism
5. Response to stimuli
6. Homeostasis
7. Stimulus
8. Response
9. Stimulus
10. Stimulus
11. response
12. Nonliving
13. Living
14. Living
15. Nonliving

Additional Practice

Modern science has changed the way people understand their world. In the past, the people of many societies thought that mountains, rivers, and forests were “alive”. In much the same way that animals and plants are alive. Today, most people recognize a difference between living and nonliving things.

DIRECTIONS: Explain how each, a dog and a river, shows the characteristic of life (if it does).

1. Made of cells
2. Uses energy
3. Responds and adjusts to change
4. Reproduces
5. Grows and develops