Science Virtual Learning

LEP Science

April 13, 2020

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Lesson: April 13, 2020

Objective/Learning Target: I can explain the learning from last week

Let’s Begin with the Characteristics of Living Things.

In you notebook or on a sheet of paper, write the 7 seven characteristics that were discussed on Monday of last week.

Review Answers

1. Organization
2. Homeostasis
3. Metabolism
4. Reproduction
5. Growth and Development
6. Response to Stimuli
7. Evolution

Now let's review ORGANIZATION

In your notebook or on a sheet of paper, write:

1. What are the 3 components of the Cell Theory
2. What are the levels of Hierarchy in organization from the Cell to the Biosphere? List them in order.

1. What are the 3 components of the Cell Theory
    a. All living things are made of cells
    b. The cell is the smallest unit of structure and function in living things
    c. All cells come from existing cells.
2. What are the levels of Hierarchy in organization from the Cell to the Biosphere? List them in order.
    a. Cell - Tissue - Organ - Organ System - Organism - Population - Community - Ecosystem - Biome - Biosphere.

Review of Types of Cells

In your notebook or on a sheet of paper, write the following words in the correct column.

Prokaryote	Both	Eukaryote

Unicellular
multicellular
more complex
nucleus
cytoplasm
ribosomes
cell membrane
Organelles
No nucleus
No organelles
Larger

Review of Types of Cells answers

How did you do?

Prokaryote	Both	Eukaryote
Unicellular No organelles No nucleus	Cell membrane Ribosomes cytoplasm	Multicellular More complex Nucleus Organelles larger

Review of Homeostasis

In your notebook or on a sheet of paper, answer the following:

1. Describe what is meant by “homeostasis”
2. What is happening in a negative feedback loop?
3. If I am working out, my body temperature is rising...what will my body do to keep me from getting too hot?

Review of Homeostasis Answers

How did you do?

1. Describe what is meant by “homeostasis” Homeostasis is a balance between external and internal environments. It is how an organism keeps a stable internal environment when the external environment is changing.
2. What is happening in a negative feedback loop? Negative feedback loops are pushing things back into homeostasis.
3. If I am working out, my body temperature is rising...what will my body do to keep me from getting too hot? My body will start to sweat to cool me down.

Review of Metabolism

In your notebook or on a sheet of paper, answer the following:

1. What is metabolism?
2. IF a person has a HIGH metabolism, will they burn more or less energy?
3. We fuel our metabolism by doing what?

Review of Metabolism--How did you do?

In your notebook or on a sheet of paper, answer the following:

1. What is metabolism? Metabolism is the sum of all chemical reactions taking place within an organism. It is measured by caloric output and heat release.
2. IF a person has a HIGH metabolism, will they burn more or less energy? more
3. We fuel our metabolism by doing what? Eating food and exercising.

If you struggled with answers to any of the previous activities, you may benefit from going back and re-doing the lesson that goes with what you struggled with.