7th Grade Life Science Exam Review

Scientific Thinking

1. What is the difference between Independent variable and dependent variable?
2. What is the difference between scientific theories and scientific law?
3. Why are scientific theories modified?
4. What is the difference between repetition of experiments and replication of experiments?
5. List the characteristics that must be included in an experiment.

Classification of Organisms

1. How are the genus and species of an organism related? What makes these terms different?
2. How can you know if two different organisms have a common ancestor?
3. What makes up a scientific name?

Cells and Cell Structure

1. How are eukaryotes different from prokaryotes? Give examples of each.
2. What is the difference between Unicellular: multicellular?
3. What makes plant cells and animal cells similar? Different?
4. What is the level of organization in the body from smallest to largest?
5. What is the role of the nucleus?
6. What is the role of the mitochondria?
7. What is the purpose of photosynthesis?
8. What is the purpose of cellular respiration?
9. How are photosynthesis and cellular respiration different and the same?
10. What are the three parts of the Cell theory?

Human Body

1. How is the small intestine different from the large intestine?
2. What are the functions of the skeletal system?
3. What are the functions of the excretory system and which organs are involved?
4. How do the parts of the skeletal system and the nervous system interact?
5. How do bronchi and alveoli help us breathe?
6. What are the differences between mechanical and chemical digestion? Where do these occur in the human body?