

## **End-of-Quarter 1 Science Test Study Guide**

*Directions: Use the following study guide to help you study for the test. Use your notes in your notebook to help you study.*

1. Be able to **locate** the following organelles on an animal and plant cell. Know the **function** of each of these organelles.
  - a. **Nucleus**
  - b. **Cell wall**
  - c. **Cell membrane**
  - d. **Vacuole**
  - e. **Cytoplasm**
  - f. **Mitochondria**
  - g. **Chloroplast**
2. Be able to state the differences between an animal and plant cell.
3. Be able to identify inherited traits. For example: eye color, hair color, height, etc.
4. Know that inherited traits are all determined by a combination of genes that come from **both** parents, not just one.
5. Know that learned characteristics are what we learn during our lifetime (riding a bicycle, swimming, etc)
6. Know the difference between a learned characteristic or behavior and an inherited trait.
7. Fur color of an animal and physical characteristics of an animal is determined by a combination of genes from both parents (Just like hair color and characteristics of a human)
8. Photosynthesis- the process of plants making food
9. In order for photosynthesis to take place, plants need Carbon Dioxide, sunlight and water
10. The product of photosynthesis = sugar (glucose) and oxygen
11. Be able to select an investigation that could be used to answer specific questions
12. Distinguish between physical and chemical changes
13. Understand the differences among freezing, melting, and evaporation
14. Understand factors that influence the rate at which different types of material freeze, melt, or evaporate