

# Life Science Quarterly Assessment Study Guide

Name **KEY** \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

Use your notebooks to complete the following study guide. We will review this during class on Wednesday. If you bring this with you on the day of the test, you will earn 2 Extra Credit points on the exam. By Wednesday evening, there will be a key to this on my website.

Fill in the blank to complete the sentences.

1. **Inherited** \_\_\_\_\_ traits are passed on to the next generation through reproduction.

2. In **sexual reproduction** \_\_\_\_\_ an egg and sperm unite. When this happens, some traits are passed down from each parent.

3. A **geneticist** \_\_\_\_\_ is a scientist who studies the way traits are inherited.

4. Traits can be either inherited or acquired. Give an example of an acquired trait:

**Hitting a baseball** \_\_\_\_\_.

5. Give an example of an inherited trait **eye color** \_\_\_\_\_.

6. The process of transporting pollen from the male part of a plant to the female part of the plant is called **pollination** \_\_\_\_\_.

7. The male part of a flower, which is made up of the anther and filament, is called the **stamen** \_\_\_\_\_.

8. Breathing is a function of the respiratory system. The substance that is supplied to the cells through respiration is **oxygen** \_\_\_\_\_.

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9. In cells, the **nucleus** \_\_\_\_\_ controls the cell's activities.
10. **Reproduction** \_\_\_\_\_ is the life function that is necessary for the survival of the species, but not necessary for the survival of an individual organism.
11. Describe the purpose of the cell membrane **the purpose of a cell membrane is to allow the movement of material into, out of, or through the cell** \_\_\_\_\_.
12. Plants and animal are **multicellular** \_\_\_\_\_ organisms (in terms of the number of cells that they are made up of).
13. **Microbes** \_\_\_\_\_ usually cause infectious disease.
14. Bacteria can be found in **soil** \_\_\_\_\_, **air** \_\_\_\_\_, and the **human body** \_\_\_\_\_.
15. Name two things that humans and plants have in common.  
  
**Both plants and animals are living organisms, both are made up of cells; both respire and reproduce.**
16. The **nucleus** \_\_\_\_\_ is the part of the cell that typically contains the genetic material.
17. **Washing your hands frequently** \_\_\_\_\_ is one of the most effective ways to prevent the spread of infectious disease.
18. **White Blood Cells** \_\_\_\_\_ fight foreign substances that enter the human body.
19. **Red Blood Cells** \_\_\_\_\_ carry oxygen to the parts of the body.
20. The **Respiratory** \_\_\_\_\_ system is responsible for obtaining oxygen.

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21. In **asexual** \_\_\_\_\_ reproduction, the offspring are genetically identical to the parent(s).

22. Antibiotics can kill bacteria, but they cannot kill a **virus** \_\_\_\_\_

23. Describe the difference between asexual and sexual reproduction.

**In asexual reproduction only one parent is required, but in sexual reproduction two parents are required.**

**In asexual reproduction the offspring are genetically identical to the parent, but in sexual reproduction the offspring have a combination of traits from both parents**