

Name: _____

AEROBIC Respiration VS ANAEROBIC Respiration

Watch the following video: <https://goo.gl/k8ossi> about anaerobic respiration and answer the following questions. You will be responsible for this information on your quiz.

1. Compare the reactants and products of aerobic and anaerobic respiration in animals.

2. Why does anaerobic respiration lead to muscle cramping?

3. What is anaerobic respiration in plants called? _____

4. Aerobic cellular respiration can produce up to 38 ATP molecules. Anaerobic cellular respiration produces 2 ATP. Which type of respiration is more efficient?

Use your knowledge of Cellular Respiration and Photosynthesis to answer the following questions:

5. Energy is transferred from one form to another during these processes.

a. What is the energy molecule made in plants but not animals?

b. In the mitochondria, chemical energy in _____ is converted into mechanical energy in the form of _____

6. What reactants are used to make glucose?

7. What reactants are used to make ATP during aerobic respiration?

8. Which cellular process gives animals the energy they need to run their metabolism?

9. Will increased respiration in plants affect the sweetness of their fruit? _____ Why or why not?

10. What should you do to relieve muscle cramping due to overproduction of lactic acid?