

Cell Biology

Name: _____

Brainpop - Cellular Respiration

Period: _____

Watch the Brainpop on cellular respiration, then fill in the blanks using the words provided in the word bank below each paragraph. You can also use Chapter 5, Section 1 to help you.

Breathing and respiration are two _____ things. Breathing is part of the _____ system. It delivers _____ from the air we breathe to _____ throughout the body. _____ is what cells do with oxygen. We use oxygen to process _____, which is a sugar that our cells need to function.

cells cellular respiration different glucose oxygen respiratory

Your _____ system breaks down _____ to turn it into glucose to power your cells. Glucose and oxygen get to your cells through the _____. Once in _____ in the cell, glucose and oxygen undergo a chemical reaction called _____. After this reaction, _____ things are left over: ATP, water, and carbon dioxide. The _____ then goes back to your lungs in the bloodstream. You can then breathe _____ the carbon dioxide. Your body needs to get rid of the carbon dioxide, because you could _____ if too much of it is in your blood.

bloodstream carbon dioxide die digestive food mitochondria out respiration three

_____ stands for adenosine triphosphate. Cells use it for anything that requires _____, like dividing and reproducing to make more cells. It allows cells to make complicated molecules like _____. ATP also makes _____ contract, which helps us to move around.



ATP DNA muscles work

Cellular respiration happens inside the cells of all _____. Another way to describe cellular respiration is _____ respiration, because it uses oxygen. If not enough _____ is available for work, the cells use a different process called _____. For fermentation, _____ is made using carbon dioxide, instead of oxygen. However, it makes _____ energy than if the cells were using oxygen. Fermentation also causes a buildup of _____, which causes muscle cramps. If the cells are using a gas other than oxygen, they are doing _____ respiration. Some living things, like _____, only use anaerobic respiration.

aerobic anaerobic fermentation glucose lactic acid less living things oxygen yeast

How is cellular respiration like you eating a candy bar?