

# Brainpop - Cellular Respiration

Name: \_\_\_\_\_

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. 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   less   living things   oxygen   yeast

How is cellular respiration like you eating a candy bar?

# Brainpop - Cellular Respiration

Name: \_\_\_\_\_

Period: \_\_\_\_\_

Now click on the icon for CHALLENGE, then select REVIEW and answer the following:

1. Which statements about cellular respiration are true? Choose more than one answer by writing TRUE on the line next to the statement. If the statement is not true, leave the line blank.

- \_\_\_\_\_ breathing and cellular respiration are unrelated
- \_\_\_\_\_ cellular respiration is a vital component of the respiratory system
- \_\_\_\_\_ individual cells carry out cellular respiration
- \_\_\_\_\_ cellular respiration is a continuous process
- \_\_\_\_\_ the main purpose of cellular respiration is to create new cells
- \_\_\_\_\_ an elephant's cells undergo cellular respiration

2. Drag the terms into the correct spot to show the path followed by oxygen during cellular respiration. Write down the five terms you used in order starting with the one on top.

\_\_\_\_\_

3. Match the component of cellular respiration with the object that most closely mirrors its function.

- bloodstream is like ... \_\_\_\_\_      ATP is like ... \_\_\_\_\_
- glucose is like ... \_\_\_\_\_      Carbon dioxide is like ... \_\_\_\_\_
- mitochondria are like ... \_\_\_\_\_

4. Put the facts in the appropriate sections of the Venn diagram to describe types of respiration:

carbon dioxide by-product    fermentation    processes carbon dioxide    processes oxygen  
   produces ATP    takes place within cells

