

Cellular Respiration Worksheet

Complete all of the following questions using your cellular respiration notes, especially the grid!

- Put the correct chemicals in order for the equation for cellular respiration. The first row is the equation in symbols (i.e. CO_2). The second row is then for the names of those chemicals.

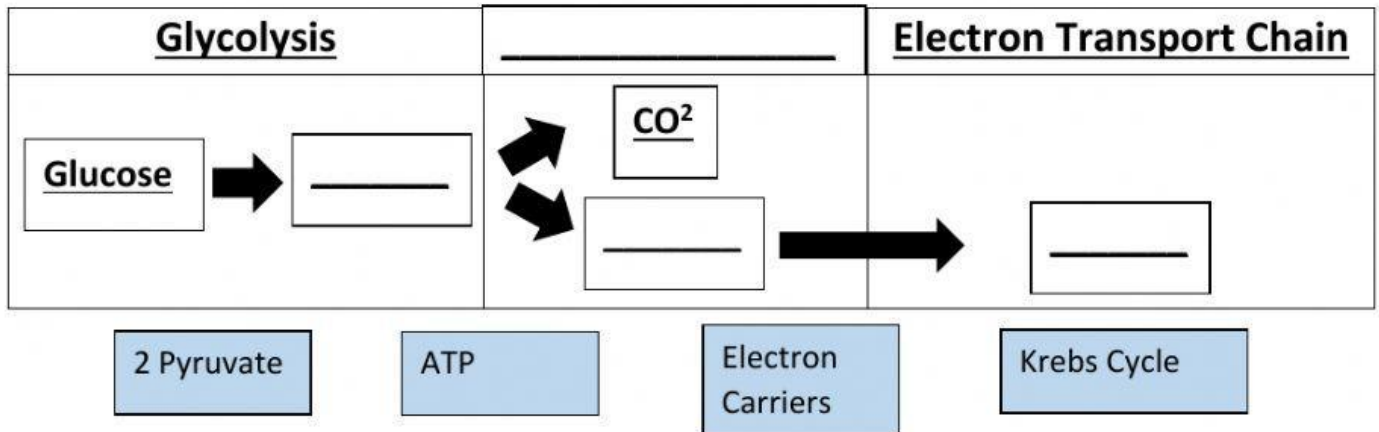
ATP Oxygen Gas Glucose Water $\text{C}_6\text{H}_{12}\text{O}_6$ H_2O Useable Energy

Products Reactants Carbon Dioxide O_2 CO_2

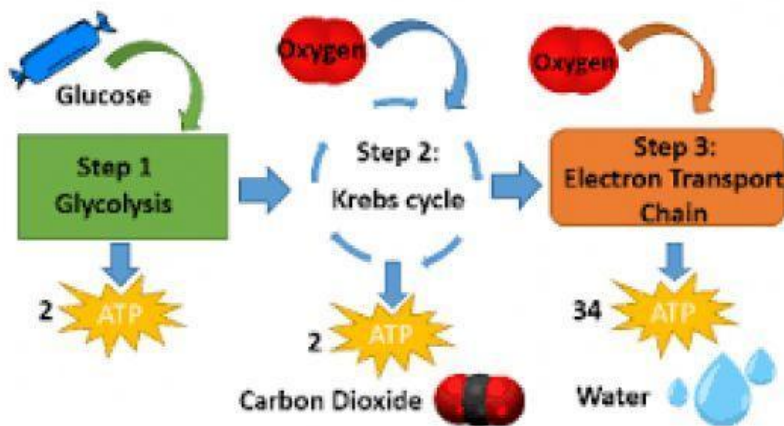
2. Cellular respiration and photosynthesis are linked. In a plant, before it can do cellular respiration it must make food. To do this it needs _____ from the air, _____ from the soil, and _____. The food it produces is _____. With the _____ from photosynthesis, it can then go through cellular respiration. _____ (the food) and _____ from the air combine in cellular respiration. They form _____ (which is a gas), _____, and _____ (which provides energy). The purpose of cellular respiration is to make _____ and _____ are waste products that are let go in the process.

- Fill in the blanks with the correct word by dragging and dropping them there.

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4. Use the graphic below to answer the questions.



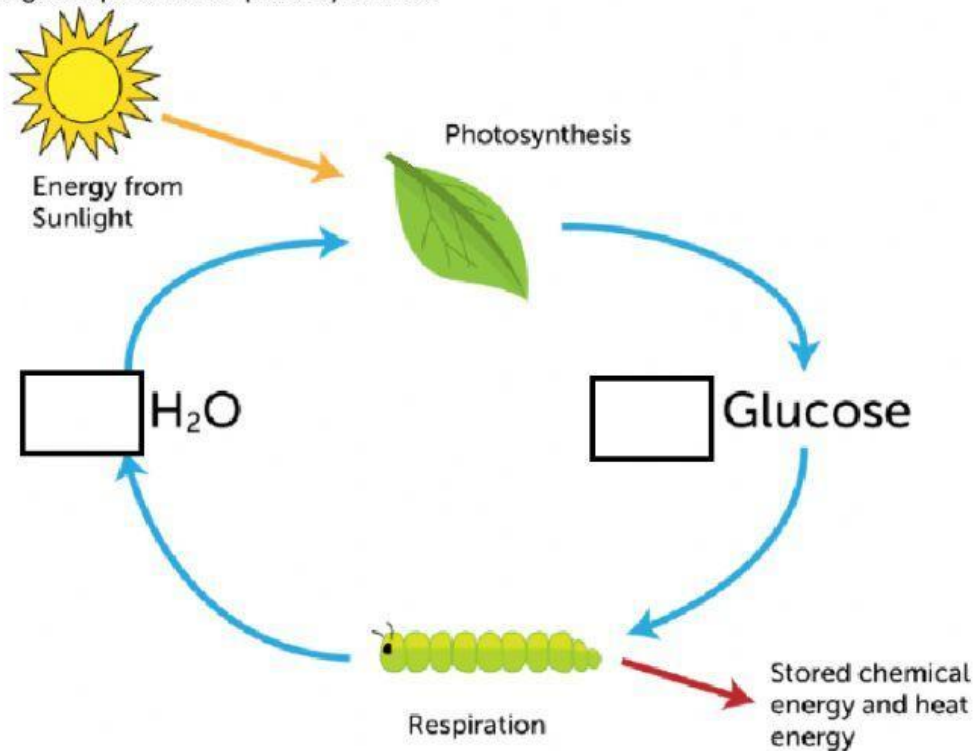
- Which step uses the glucose? _____
- Which step uses oxygen? _____
- Which step does the waste product carbon dioxide come from? _____
- Which step does the waste product water come from? _____
- Based on the image, which step is the most important when it comes to supplying ATP? _____
- How much ATP is made in cellular respiration based on this image? _____
- Is this type of cellular respiration aerobic or anaerobic? _____

5. Select the correct answers for each list below. Select all that apply.

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<u>Reactants of Cellular Respiration</u>	<u>Products of Cellular Respiration</u>
Water	Water
Glucose	Glucose
Carbon Dioxide	Carbon Dioxide
Nitrogen	Nitrogen
Oxygen Gas	Oxygen Gas
ATP	ATP
Sunlight	Sunlight

6. Fill in the correct gases. Hint: The arrow pointing away from photosynthesis is showing what things are products of photosynthesis.



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7. Select the correct answers like a normal multiple choice question.

- Which of the following organisms go through cellular respiration?
 - A. Autotrophs
 - B. Heterotrophs
 - C. Both Autotrophs and Heterotrophs
- The main source of energy in a cell is?
 - A. Carbohydrates
 - B. Lipids
 - C. DNA
 - D. ATP
- Which is a factor that affects cellular respiration?
 - A. CO₂ levels in the air
 - B. Water amount in the soil
 - C. Glucose amount in the body
 - D. Light Intensity
- Which of these things is found as part of the cellular respiration equation, but not in the photosynthesis equation?
 - A. Oxygen Gas
 - B. ATP
 - C. Sunlight
 - D. Carbon Dioxide

8. Watch the video and answer the questions below.

Which waste product is what causes bread to rise? _____

Other than the waste product, what is needed to allow bread to rise? _____

What do yeast eat? _____