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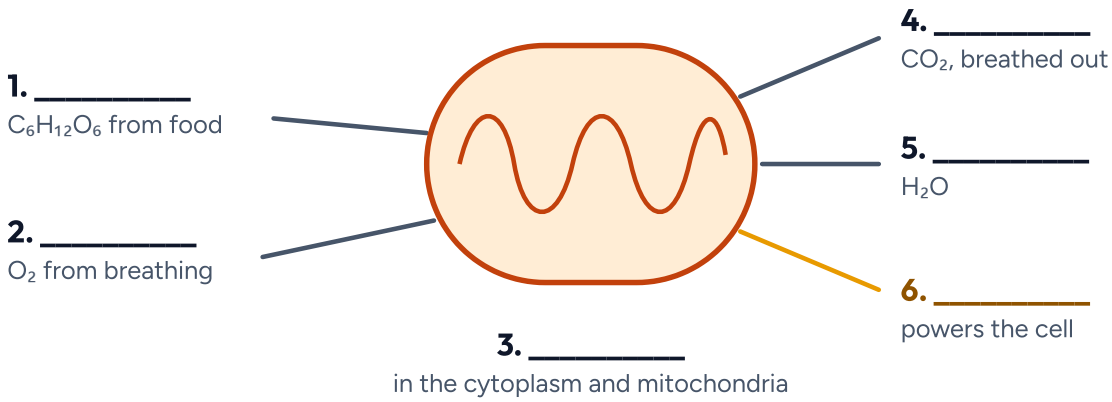
Cellular respiration worksheet

Name _____ Class _____ Date _____

Part A: Label the diagram

This diagram shows what goes into and comes out of cellular respiration. Write the name of each numbered part on the diagram. Use the word bank.

Carbon dioxide | **Cellular respiration** | **Energy (ATP)** | **Glucose** | **Oxygen** | **Water**



Part B: Fill in the blanks

ATP | **carbon dioxide** | **cytoplasm** | **ethanol** | **glucose** | **glycolysis** | **lactic acid** | **mitochondria** | **oxygen** | **water**

1. Cellular respiration releases energy from _____, a sugar.
2. Most of cellular respiration happens inside the _____.
3. Glycolysis happens in the _____ of the cell.
4. The energy released is stored in a molecule called _____.
5. Aerobic respiration uses _____ and gives off carbon dioxide and water.

6. During hard exercise, muscle cells make _____ by anaerobic respiration.

7. When there is no oxygen, yeast makes _____ and carbon dioxide.

8. The first stage of respiration, which splits glucose in two, is called _____.

Part C: Complete the equations

1. Complete the word equation for aerobic respiration: glucose + _____ → carbon dioxide + _____ (+ energy)

2. Balance the symbol equation: $C_6H_{12}O_6$ + _____ O_2 → _____ CO_2 + _____ H_2O

3. Complete the word equation for anaerobic respiration in muscles: glucose → _____

Part D: Answer the questions

1. What is the difference between breathing and cellular respiration?

2. Name the four stages of aerobic respiration in order.

3. Why does aerobic respiration release much more energy than anaerobic respiration?

4. What job does oxygen do in the electron transport chain?

5. Why do you keep breathing hard for a while after a sprint?

6. Explain how photosynthesis and cellular respiration are linked.

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