

Cellular Respiration Quiz – BIO.2d

1. Use the following terms to fill in the blanks* in the chemical equation aerobic cellular respiration. Not all terms will be used. (1pt each; 5pts total)
 *Only write terms on the thick black lines.

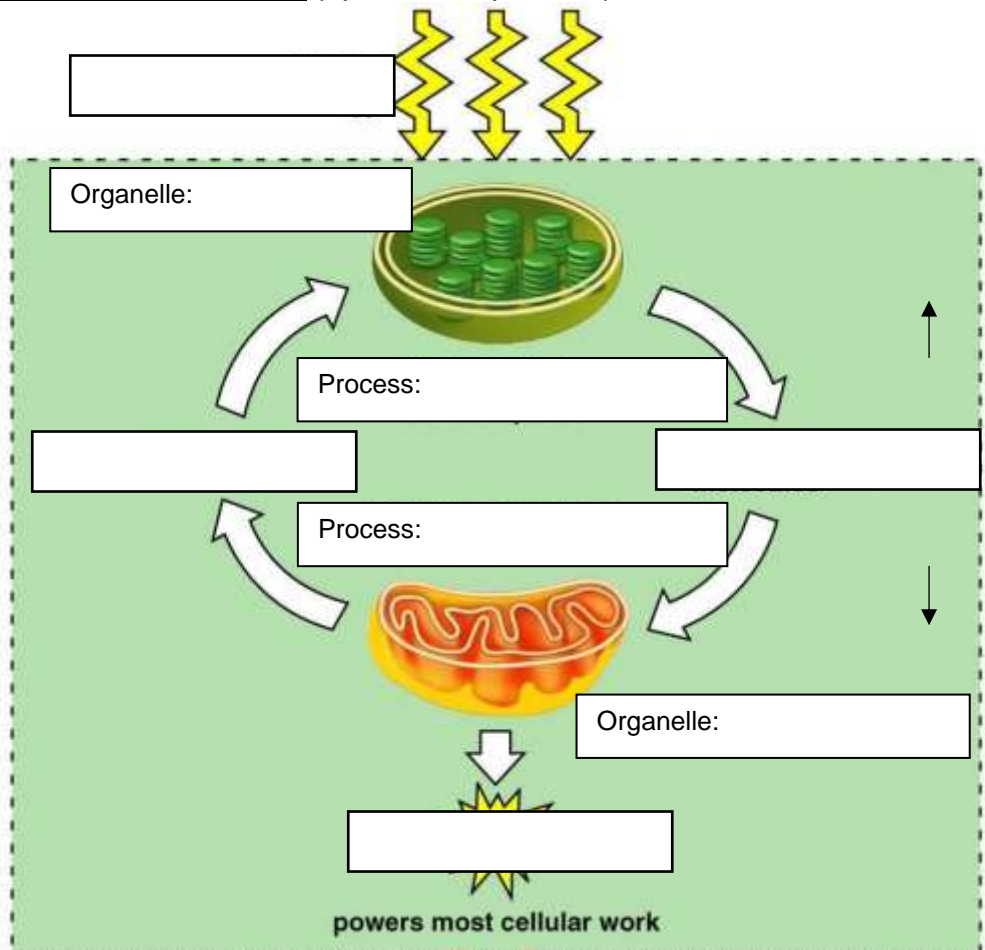
36 ATP	$C_6H_{12}O_6$ (Glucose)	6 CO_2	6 H_2O	6 O_2	6 N_2
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Aerobic Cell Respiration



2. Which of the following types of organisms are capable of cellular respiration? Circle one choice. (1pt)
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|-------------|------------------------|
| a. Animals | e. Bacteria |
| b. Fungi | f. All of the above |
| c. Plants | g. Only 2 of the above |
| d. Protists | h. None of the above |
3. Relationship between Photosynthesis and Respiration – Label the diagram below using the following terms. Each term will only be used once. (1pt each; 8 pts total)

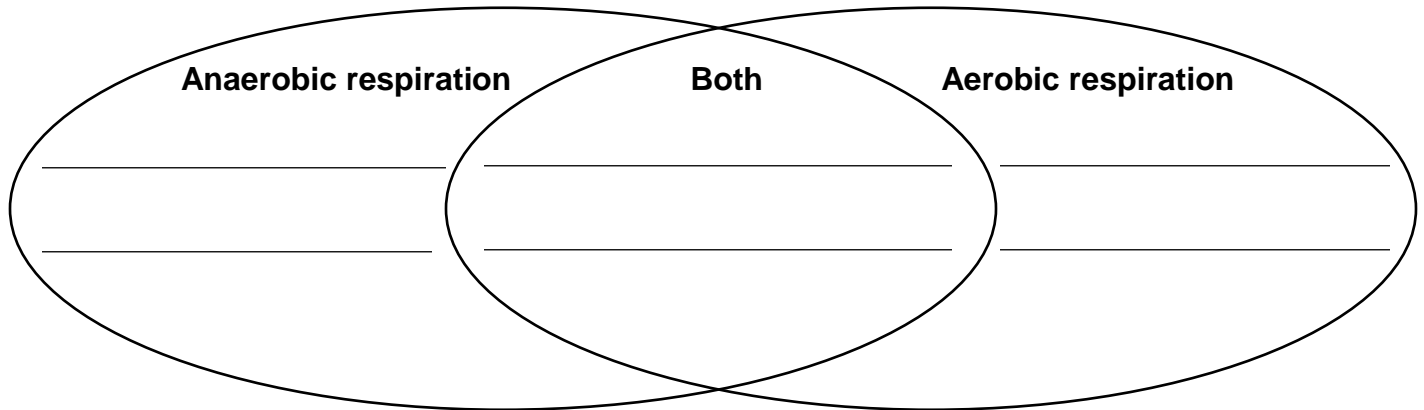
- | |
|---|
| <ul style="list-style-type: none"> • ATP • Chloroplast • $CO_2 + H_2O$ • Mitochondrion • Light energy • $O_2 + C_6H_{12}O_6$ • Photosynthesis • Respiration |
|---|



Name _____ Block _____ Date _____

4. Compare and contrast anaerobic respiration with aerobic respiration by completing the Venn Diagram below, using only the following phrases. Only one phrase per line in the Venn Diagram. (1pt each; 6pts total):

Converts food into useable cellular energy	Doesn't use oxygen	Makes 2 ATP	Makes 36 ATP	Uses glucose	Uses oxygen
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5. Explain the difference between a heterotroph and an autotroph. (2pts)

Heterotrophs... _____

Autotrophs... _____

6. Explain the role of ATP in living things. (1pt)

7. Animals rely on plants to survive, but plants do not rely on animals. Explain at least two reasons why plants can survive in the absence of animals. (2pts)

I. _____

II. _____