

Topics	Notes, Diagrams, and Drawings
What is cellular respiration?	<ul style="list-style-type: none">• All living things need _____ to survive.• Define: _____ _____ _____• Occurs in 2 parts of the cell: the _____ and the _____.
What reaction occurs in the cytoplasm?	<ul style="list-style-type: none">• _____ is the first step of cellular respiration.
What is glycolysis?	<ul style="list-style-type: none">• Define: _____ _____ _____• Produces some _____.• Also uses _____ from other _____.
What reaction occurs in the mitochondria?	<ul style="list-style-type: none">• The second step of cellular respiration occurs here.• Requires _____.• _____ made during _____ is broken down.• Large amounts of _____, or _____, are produced.• Cells use _____ to power all cellular processes.

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What is fermentation?	<ul style="list-style-type: none">• 2 waste products, _____ and _____, are given off during this step.• The _____ released is used by plants and some unicellular organisms in a process called _____.• Occurs when cells don't have enough _____ to make _____ through cellular respiration.• _____ is obtained through a process that does not use _____.• Define: _____ _____ _____• Because no _____ is used, fermentation produces less _____ than cellular respiration.• Occurs in the _____.
What are the 2 types of fermentation?	<ul style="list-style-type: none">• _____ occurs when glucose is converted into ATP and _____ is produced. (example: _____)• _____ occurs when glucose is converted into ATP and _____ and _____ is produced. (example: _____)

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<p>What is photosynthesis?</p>	<p>Define: _____ _____ _____</p>
<p>How are light and pigments used?</p>	<ul style="list-style-type: none"> • Photosynthesis requires _____. • Pigments such as _____ absorb light. • When _____ absorbs light, it absorbs all colors except _____, as reflected in the color of the leaves.
<p>What reactions occurs in the chloroplasts?</p>	<ul style="list-style-type: none"> • The _____ absorbed by _____ powers the chemical reactions of photosynthesis. • Reactions occur in the _____, the organelle in plants cells that convert _____ energy to _____ energy in food. • _____, _____, and _____ combine to make _____. • Photosynthesis also produces _____ that is released into the atmosphere.
<p>Why is photosynthesis important?</p>	<ul style="list-style-type: none"> • Photosynthesis uses _____ and _____ to make _____ and _____. • When an organism eats plant material, it takes in _____. • An organism uses the _____ released during photosynthesis to convert _____ into _____ (ATP) during cellular respiration.

Chapter 2, Lesson 4
Cells and Energy

Name _____