

Name: _____

Date: _____ HR: _____

Text in the Middle

| In my OWN words this means . . . (2-3 sentences) | TEXT Cell Energy | Draw what you visualize while reading the text using your summary points |
|--|--|---|
| | <p>How Does a Plant Make Food?</p> <p>The sun is the major source of energy for life on Earth. Plants use carbon dioxide, water, and the sun's energy to make food in a process called photosynthesis. The food that plants make gives them energy. When animals eat plants, the plants become sources of energy for the animals. Plant cells have molecules called <i>pigments</i> that absorb light energy. Chlorophyll is the main pigment used in photosynthesis. Chlorophyll is found in chloroplasts. The food plants make is a simple sugar called <i>glucose</i>. Photosynthesis also produces oxygen.</p> | |
| | <p>How Do Organisms Get Energy from Food?</p> <p>Both plant and animal cells must break down food molecules to get energy from them. There are two ways cells get energy: cellular respiration and fermentation. During cellular respiration, cells use oxygen to break down food. During fermentation, food is broken down without oxygen. Cellular respiration releases more energy from food than fermentation. Most eukaryotes, such as plants and animals, use cellular respiration.</p> | |

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|---|--|---|
| | <p style="text-align: center;">What Happens During Cellular Respiration?</p> <p>When you hear the word <i>respiration</i>, you might think of breathing. However, cellular respiration is different from breathing. Cellular respiration is a chemical process that happens in cells. In eukaryotic cells, such as plant and animal cells, cellular respiration takes place in structures called <i>mitochondria</i>.</p> <p>Recall that to get energy, cells must break down glucose. During cellular respiration, glucose is broken down into carbon dioxide (CO₂) and water (H₂O), and energy is released. This energy is stored in a molecule called <i>ATP</i> (adenosine triphosphate).</p> | |
| <p style="text-align: center;">Draw the model below that shows how photosynthesis and respiration are connected to each other. Use pictures, words, and arrows.</p> | | |