

Life Science (Cells & Photosynthesis)

Grade 7 Science Grade 7 Science

Start Date: August 26, 2013

End Date : September 20, 2013

<p>Unit Overview Cells & Photosynthesis</p>	<p>Content Elaborations</p> <p>The use of light energy to make food is called photosynthesis. The release of the stored energy is called respiration.</p> <p>It is appropriate to reinforce that the chloroplast (the plant cell organelle) is where photosynthesis occurs to begin the process of converting the energy from the sun into chemical energy.</p>	<p>Unit Resources</p> <ul style="list-style-type: none"> - Text Book Ch. 3 & 4 - Directed Reading A - Discovery Education Video: Biology: The Science of Life: The Flow of Matter & Energy - Gizmo: Photosynthesis Lab - Gizmo: Cell Energy Cycle - Quizlet
<p>Unit Vocabulary</p> <p>Cell Photosynthesis Organism Respiration Chloroplast Chlorophyll Glucose Oxygen Carbon Dioxide Producer Mitochondria</p>	<p>Enduring Understandings (Big Ideas)</p> <p>Plants use the energy in light to make sugars out of carbon dioxide and water (Photosynthesis).</p>	<p>Connections</p>

Standards

OH Academic Content Standards - Science (2011) - Grade 7

Strand LS Life Science

Topic LS.1 This topic focuses on the impact of matter and energy transfer within the biotic component of ecosystems.

Content Statement LS.1.1 Matter is transferred continuously between one organism to another and between organisms and their physical environments.

LS.1.1.a Plants use the energy in light to make sugars out of carbon dioxide and water (photosynthesis). These materials can be used and immediately stored for later use. Organisms that eat plants break down plant structures to produce the materials and energy they need to survive. Then they are consumed by other organisms.

Life Science (Cells & Photosynthesis)

Grade 7 Science Grade 7 Science

Start Date: August 26, 2013

End Date : September 20, 2013

Student Assessment Chapter Test Study Island	Unit Reflection
--	-----------------

Cells & Photosynthesis

Content	Skills	Assessment
A. Cells B. Photosynthesis	A. Cells <ol style="list-style-type: none">1. Identify cell structures of plant cells2. Identify cell structures of animal cells3. Identify cell structures that are primarily responsible for photosynthesis & respiration B. Photosynthesis <ol style="list-style-type: none">1. Describe the process of photosynthesis2. Describe the process of respiration3. Explain the process by which chloroplast captures the sun's energy and turns it into a food source.4. Describe energy transformations	