<table>
<tr><td>Time Frame:</td><td>Unit Title: Photosynthesis-Plants’ greatest gift</td><td>Course Name: Grade 7 science</td></tr>
<tr><td colspan="3">Stage 1 - Desired Results</td></tr>
<tr><td rowspan="8">Established Goals

To identify products and reactants of photosynthesis

To recognize that plants are critical to life

Illustrate the relationships between photosynthesis and light

MS LS 1-6 Design a scientific explanation based on evidence for the role of photosynthesis

MS LS 1-7 Develop a model to demonstrate how food is rearranged through chemical reactions

MS LS 2-3 Develop a model to demonstrate the cycling of matter and the flow of energy between living and non living things</td><td colspan="2">Transfer</td></tr>
<tr><td colspan="2">Students will be able to independently use their learning to…

Teach another student the process of photosynthesis.
Developing and Using Models.
Analyzing and Interpreting Data.
Conducting Explanations.</td></tr>
<tr><td colspan="2">Meaning</td></tr>
<tr><td>UNDERSTANDINGS
Organisms on earth rely on photosynthesis

Every organism on earth is an important part of the food chain/web

The sun is the ultimate source of energy on earth</td><td>ESSENTIAL QUESTIONS
What if the sun was no longer able to shine?
What would happen if all the plants on earth became extinct?
What is the relationship between plants and animals in the ecosystem?</td></tr>
<tr><td colspan="2">Acquisition</td></tr>
<tr><td>Students will know…
How to Describe photosynthesis
List the reactants of photosynthesis
Explain where photosynthesis takes place in the cell
Illustrate the process of photosynthesis</td><td>Students will be skilled at…
Designing a method of teaching another student the process of photosynthesis</td></tr>
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The UbD Template, Version 2.0
2011 by Grant Wiggins and Jay McTighe