



Photosynthesis

3RD GRADE LESSON PLAN

SUBJECT: SCIENCE

Lesson Background:

- ▶ To build knowledge and awareness about the importance of photosynthesis and how all life depends upon this process. With this knowledge, students can con-construct meaningful, productive action through activities and future endeavors.

State Standards (Science)

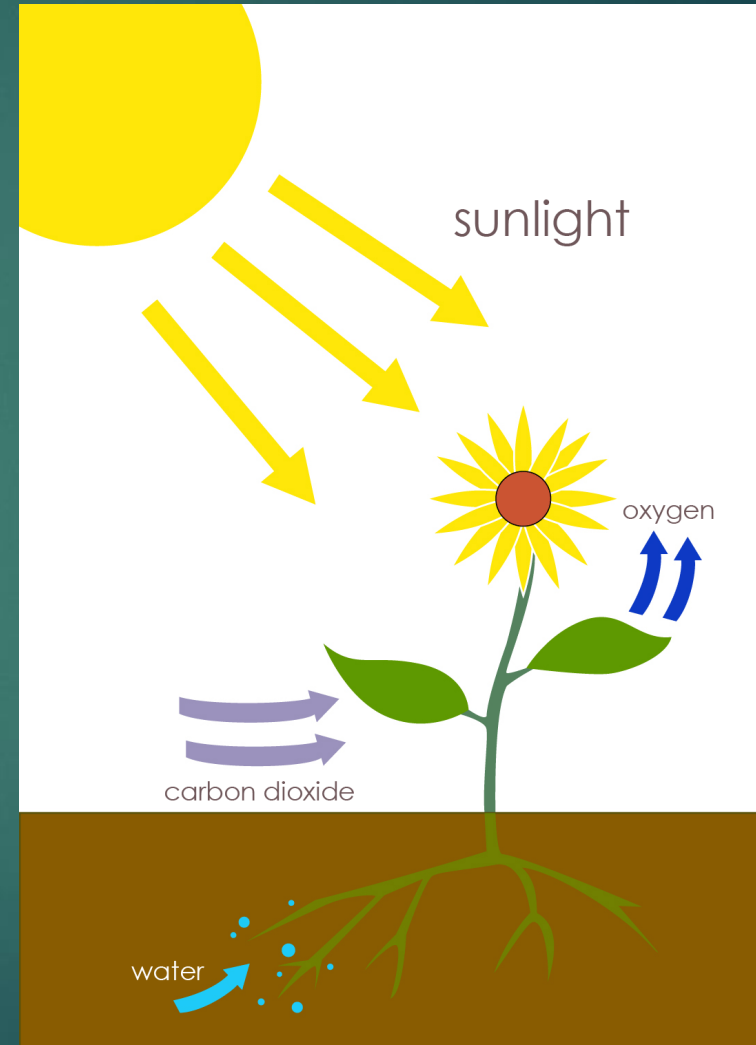
- ▶ Strand 1: Inquiry Process
- ▶ Inquiry Process establishes the basis for students' learning in science. Students use scientific processes: questioning, planning and conducting investigations, using appropriate tools and techniques to gather data, thinking critically and logically about relationships between evidence and explanations, and communicating results.
- ▶ Concept 1: Observations, Questions, and Hypotheses
- ▶ Observe, ask questions, and make predictions.
- ▶ PO 1. Formulate relevant questions about the properties of objects, organisms, and events of the environment using observations and prior knowledge.
- ▶ PO 2. Predict the results of an investigation based on observed patterns, not random guessing.
- ▶ <http://www.azed.gov/standards-practices/files/2011/09/sciencegrade3.pdf>

Lesson Objectives:

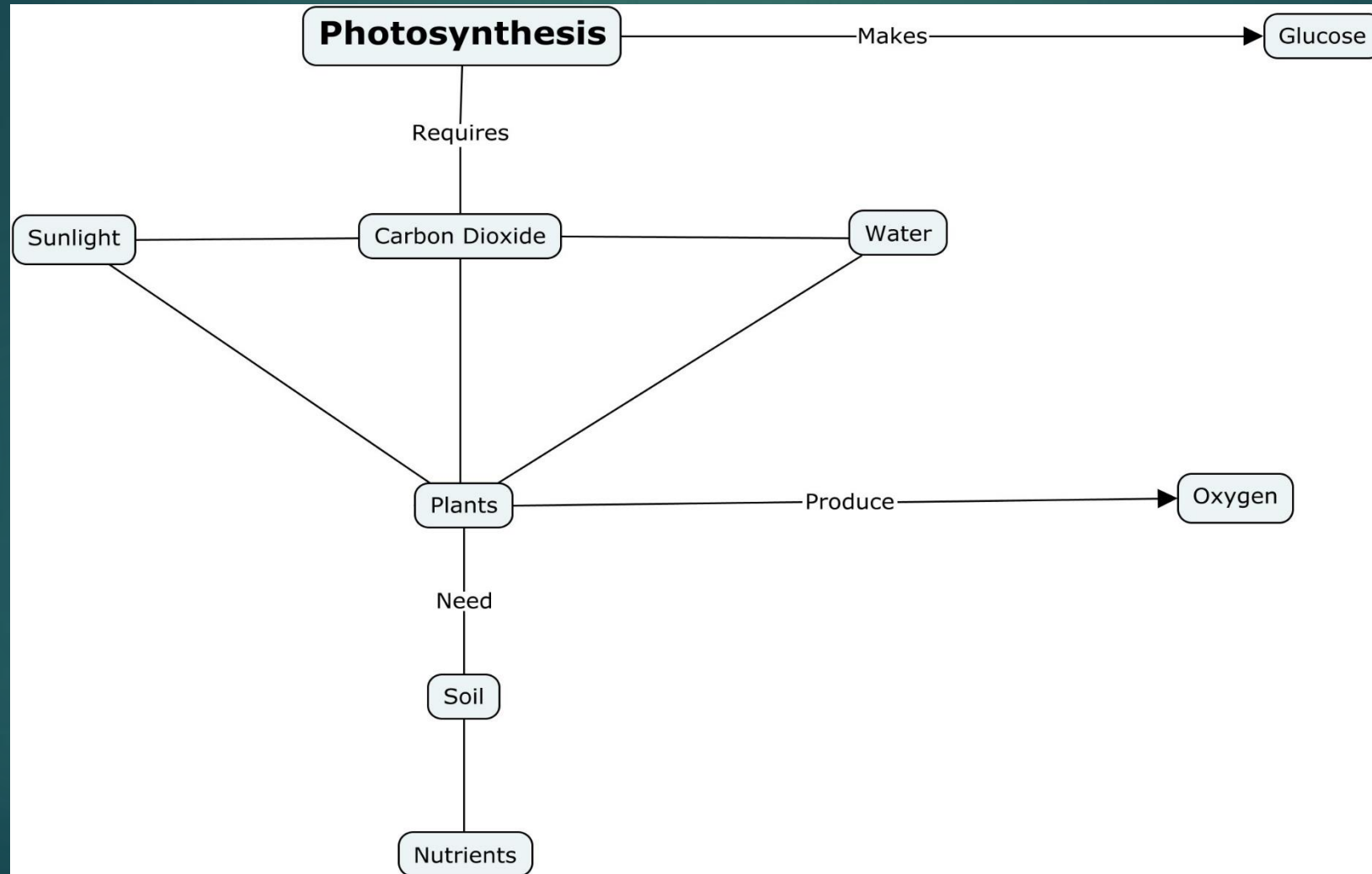
- ▶ Students will learn to identify key terms pertaining to photosynthesis.
- ▶ Students will learn the process of photosynthesis through a voice thread, concept map, online videos and virtual activities.
- ▶ Students will also learn the process of photosynthesis through identification of the key procedures of the process.
- ▶ Students will gain awareness about the importance of photosynthesis and how all life depends upon this process through a video that will be implemented in the lesson.

What Is Photosynthesis?

- ▶ The process by which green plants and some other organisms use **sunlight** to synthesize foods from **carbon dioxide** and **water**. Photosynthesis in plants generally involves the green pigment **chlorophyll** and generates **oxygen** as a **byproduct**.



Concept Map On Photosynthesis



Interactive Virtual Activities:

- ▶ <http://www.wonderville.ca/asset/photosynthesis>
- ▶ http://www.glencoe.com/sites/common_assets/science/virtual_labs/LS12/LS12.html

Voice Thread:

▶ <http://voicethread.com/share/7377586/>

Photosynthesis Videos:

- ▶ https://www.youtube.com/watch?v=UDKiT_hMjzs
- ▶ <https://www.youtube.com/watch?v=SJxRURFkfOw>

Resources (5):

- ▶ <http://bioenergy.asu.edu/photosyn/photoweb/education.html>
- ▶ http://www.educationworld.com/a_lesson/lesson/lesson024.shtml
- ▶ <http://www.saps.org.uk/secondary/teaching-resources/134-photosynthesis-a-survival-guide-teaching-resources>
- ▶ <http://www.pbslearningmedia.org/resource/tdc02.sci.life.stru.photo-synth/photosynthesis/>
- ▶ <http://www.nsta.org/publications/news/story.aspx?id=49453>