

Unit 4: Cell and Energy

Lesson Plan

Disciplinary Core Areas	Energy in Chemical Processes and Everyday Life
NGSS:	<ul style="list-style-type: none">• <i>MS-LS1-6 Construct a scientific explanation based on evidence for the role of photosynthesis in the cycling matter and flow of energy into and out of organisms.</i>• <i>MS-LS1-7 Develop a model to describe how food is rearranged through chemical reactions forming new molecules that support growth and/or release of energy as this matter moves through an organism.</i>
Lesson Title	Photosynthesis
Lesson Number	4-4
Learning objectives:	<ul style="list-style-type: none">• Explain the process of photosynthesis.• Identify the reactants and products in photosynthesis.• Differentiate light and dark reactions in photosynthesis.• Explain the importance of photosynthesis.
"I can" statement:	I can explain the process of photosynthesis including its reactants and products, the difference between light and dark reactions, and its importance.
Prior Knowledge:	Cell Structure and Function, Glucose and ATP, Aerobic and Anaerobic Cellular Respiration
Vocabulary:	Chloroplasts, Chlorophyll, Dark-reaction, Granum, Light-reaction, Photosynthesis, Stomata, Stroma, Thylakoid
Summary of Activities:	<ol style="list-style-type: none">1. Distribute and complete bell ringer activity.2. Discuss guided notes and slideshow, with students.3. Do the laboratory activity with students.4. Give the exit quiz to students.
Additional Resources:	<ul style="list-style-type: none">• See online activities
Homework:	<ul style="list-style-type: none">• Assignment
Assessment:	<ul style="list-style-type: none">• Bell work• Assignment• Exit quiz• End of unit review