

Grade 5

Distance Learning Module 5: Week of April 27th – May 1st

Science: Grade 5 - Modified from [Unit #3 - Ecosystem Sustainability](#)

Sustainability/Food Production - PBA

Targeted Goals from Stage 1: Desired Results

- Students will be able to apply their understanding of the factors required for plant growth and healthy, balanced ecosystems as well as issues about environmental health and feeding a growing population, to a design solution that will allow us to responsibly and effectively grow food.
- Students will be able to share and justify their design ideas and respectfully consider and discuss design ideas from group members.

Evaluative Criteria

While describing their future food production plan, students will accurately and thoroughly identify all the requirements needed for plant growth. Students will thoroughly and accurately explain the reasons for using new technology to grow food. Students will thoughtfully combine multiple pieces of information from a variety of sources to draw conclusions about the needs and limitations of the plants being grown, in order to create a workable food production design plan.

Content Knowledge: Photosynthesis Process, Flow of Energy, Cycle of Matter, Decomposers, Carbon Dioxide CO₂, Hydrogen from water H₂O

Vocabulary: matter, ecosystems, organism, biotic factor, abiotic factor, producer, herbivore, carnivore, omnivore, decomposer

Skills: Students will be able to design a technological solution to grow food.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday:	Future of Farming PBA - Please read the attached document about former Connecticut Governor Malloy's plan to provide money for farming research. Click the links within the	Review the PBA documents Completed PBA due Friday. YOU MAY PRINT THESES DOCUMENTS OR PICK UP COPIES AT BROWN SCHOOL DURING SCHOOL HOURS

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
	<p>document to gather more information.</p> <p>Future of Food Production</p> <p>Food Concerns and Solutions Slide Show In this slideshow, you will learn about farming concerns and different possible solutions for farming in the future.</p> <p>Below is a link to help you brainstorm solutions. Brainstorm Technologies</p> <p>Green Rooftop Farming Vertical Farming Aquaponics Arctic/Desert Greenhouse Farming Ocean Farming</p> <p>Food Production Plan- This document is your final submission</p>	<p>Review these Resources</p> <p>Future of Food Production</p> <p>Food Concerns and Solutions Slide Show</p> <p>Brainstorm Technologies</p> <p>Food Production Plan</p> <p>Photosynthesis Requirement Checklist</p> <p>Future of Farming Rubric</p>
Tuesday:		<p>Complete this document</p> <p>Brainstorm Technologies</p> <p>submit a photo of this document.</p>
Wednesday:		<p>Begin your design sketches and answer questions in this document.</p> <p>Food Production Plan</p> <p>All of your designs must include the elements on this checklist</p>

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
		Photosynthesis Requirement Checklist
Thursday:		Create a poster demonstrating your Farming Technology
Friday:		Finish your poster and submit a photo and this document Food Production Plan

Week criteria for success

Photosynthesis Requirement Checklist

Future of Farming Rubric

Supportive resources and tutorials for the week (plans for re-teaching):

American Museum of Natural History: Future of Food Food: