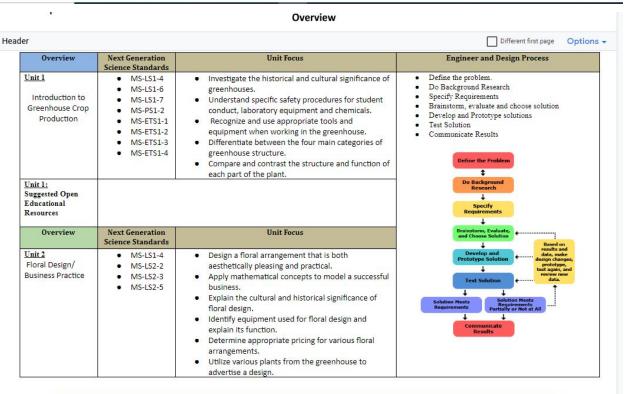
Greenhouse Curriculum – Grade 7 Overview

Overview	Next Generation Science Standards	Unit Focus	Engineer and Design Process
Unit 1 Introduction to Greenhouse Crop Production Unit 1: Suggested Open	 MS-LS1-4 MS-LS1-6 MS-LS1-7 MS-PS1-2 	 Investigate the historical and cultural significance of greenhouses. Understand specific safety procedures for student conduct, laboratory equipment and chemicals. Recognize and use appropriate tools and equipment when working in the greenhouse. Differentiate between the four main categories of greenhouse structure. Compare and contrast the structure and function of each part of the plant. 	Define the problem. Do Background Research Specify Requirements Brainstorm, evaluate and choose solution Develop and Prototype solutions Test Solution Communicate Results Define the Problem Do Background Research Do Background Research
Educational Resources			Specify Requirements
Overview	Next Generation Science Standards	Unit Focus	Brainstorm, Evaluate, and Choose Solution
<u>Unit 2</u> Biodiversity	 MS-LS1-4 MS-LS2-2 MS-LS2-3 MS-LS2-5 	Connect biodiversity and its role in the overall health of the planet. Investigate the native biodiversity of the school and surrounding community. Classify key aspects of local habitats and the local ecosystem that promote biodiversity. Connect human actions and the level of biological diversity found within a habitat and/ or ecosystems. Assess and improve improve the biodiversity on school grounds. Cite evidence to provide information regarding the benefits of a biologically diverse ecosystem and	Develop and Prototype Solution Hests Requirements Solution Meets Requirements Requirements Results and data, make described and data, data described and data, data described and data, data described and data, data described and data described and data, make described and data, make described and data, data described and data data described and data d

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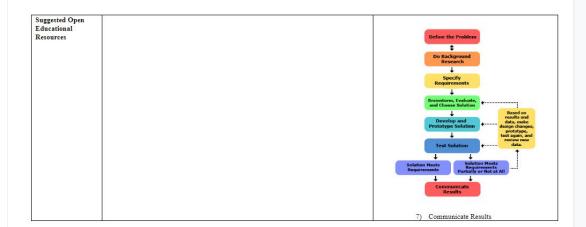
<u>Unit 2:</u> Suggested Open Educational Resources		communicate this information to students, families and the community.	
Overview	Next Generation Science Standards	Unit Focus	Engineer and Design Process
Unit 3 Growing Medium and Environment	MS-PS1-2 MS-LS1-4 MS-LS1-7 MS-LS2-5	Create a soil mixture that promotes growth of a specific species of plant. Categorize the micro and macro nutrients in various types of soil. Compare and Contrast the various non traditional; methods of growing and determine which plants do better in certain environments. Construct a container suitable for vermicomposting.	Define the problem. Do Background Research Specify Requirements Brainstorm, evaluate and choose solution Develop and Prototype solutions Test Solution
Unit 3: Suggested Open Educational Resources			
Overview	Next Generation Science Standards	Unit Focus	
<u>Unit 4</u> Greenhouse Management	MS-LS1-4 MS-LS1-6 MS-LS2-3 MS-LS2-4 MS-LS4-5	 Apply concepts learned to harvest various plant species for greenhouse crop production. Research and identify a soil mixture that is suitable for growing. Measure and determine appropriate amounts of fertilizer to use with various plants. 	

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Unit 2: Suggested Open Educational Resources			
Overview	Next Generation Science Standards	Unit Focus	Engineer and Design Process
Unit 3 Business Practice	 MS-PS1-2 MS-LS1-4 MS-LS1-7 MS-LS2-5 	Apply concepts learned to clone various plant species. Create a soil mixture that is suitable for growing. Measure and determine appropriate amounts of fertilizer to use with various plants. Complete an application for employment in an agricultural career. Analyze various components of landscape design to be utilized for end of year project.	1) Define the problem. 2) Do Background Research 3) Specify Requirements 4) Brainstorm, evaluate and choose solution 5) Develop and Prototype solutions 6) Test Solution 7) Communicate Results Define the Problem
Unit 3: Suggested Open Educational Resources			Do the Expression Recently Sparify Requirements Brokertows, Evaluation and Chalces Schellen Based on
Overview	Next Generation Science Standards	Unit Focus	Develop and Prototype Solution Prototype Solution Develop and Prototype Solution Develop and Prototype Solution
Unit 4 STEAM Tank/Innovative Project	 MS-LS1-4 MS-LS1-6 MS-LS2-3 MS-LS2-4 MS-LS4-5 	 Create a project design that is effective and convincing. Design a project that is innovative and can explain all parts of the process from start to finish. Apply concepts learned to demonstrate an understanding of course material. 	Text Solution Text Solution Heats Solution Heats Requirements Professor William Heats Communicate Commu
Unit 4:			

Greenhouse Curriculum - Grade 8- Overview



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