

Leanna Weimer Lesson Plans for week of Sept 11  
Plant and Soil Science

DAY	PA Standards	OBJECTIVE	ACTIVITY	EVALUATION
M	<p>201 Explain systems used to classify plants.            202 Identify the components and structures of plants.            203 Explain the functions of plant systems.            204 Identify products and uses of plant species in Pennsylvania.            205 Explain the basic process of photosynthesis/respiration and their importance to life.            206 Identify and compare the functions of the essential nutrients for plant growth and development.            207 Assess the environmental factors that affect the growth and development of a plant.            208 Compare and contrast sexual and asexual plant reproduction.            209 Apply concepts of Integrated Pest Management (IPM) strategies used to manage pest populations and analyze its effectiveness.            210 Examine the impact of pests and diseases as variables in plant production.            211 Determine the role of plant pollinators.            212 Investigate emerging technologies within practical applications of plant science.</p>	<ol style="list-style-type: none"> <li>1. Define plant sciences</li> <li>2. Define the purposes and uses of plants</li> <li>3. Determine the difference between direct and indirect plant uses.</li> </ol>	<p>Students will be introduced to plant science – notes.            Students will debate the pros and cons of being a vegetarian</p>	debate
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W	<p>201 Explain systems used to classify plants.            202 Identify the components and structures of plants.            203 Explain the functions of plant systems.            204 Identify products and uses of plant species in Pennsylvania.            205 Explain the basic process of photosynthesis/respiration and their importance to life.            206 Identify and compare the functions of the essential nutrients for plant growth and development.            207 Assess the environmental factors that affect the growth and development of a plant.            208 Compare and contrast sexual and asexual plant reproduction.            209 Apply concepts of Integrated Pest Management (IPM) strategies used to manage pest populations and analyze its effectiveness.            210 Examine the impact of pests and diseases as variables in plant production.            211 Determine the role of plant pollinators.            212 Investigate emerging technologies within practical applications of plant science.</p>	<ol style="list-style-type: none"> <li>1: Distinguish between producers and consumers in energy production and understand the importance of each in the food chain.</li> <li>2: Describe how producers and consumers are related on the food chain.</li> <li>3: Determine the importance of agricultural plants in the food chain.</li> </ol>	<p>Students will be introduced to the plant kingdom (notes and group discussion).</p>	<p>Lab: outlining food webs and the importance of plants.</p>
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F	<p>201 Explain systems used to classify plants.            202 Identify the components and structures of plants.            203 Explain the functions of plant systems.            204 Identify products and uses of plant species in Pennsylvania.            205 Explain the basic process of photosynthesis/respiration and their importance to life.            206 Identify and compare the functions of the essential nutrients for plant growth and development.            207 Assess the environmental factors that affect the growth and development of a plant.            208 Compare and contrast sexual and asexual plant reproduction.            209 Apply concepts of Integrated Pest Management (IPM) strategies used to manage pest populations and analyze its effectiveness.            210 Examine the impact of pests and diseases as variables in plant production.            211 Determine the role of plant pollinators.</p>	<ol style="list-style-type: none"> <li>1. As a result of this lesson students will understand the purpose for classifying living species.</li> <li>2. As a result of this lesson students will learn how to utilize biological classification systems.</li> </ol>	<p>Students will be introduced to biological classification of plant species.</p>	<p>Classification of plant species in PA with dichotomous keys (intro)</p>

	212 Investigate emerging technologies within practical applications of plant science.			
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Accommodations: Graphic Organizers, photocopied notes, special seating, extended time, groupings, reminders, on-going feedback, highlighted notes

Enrichment: projects that will enhance student learning

Accommodations and enrichment may change based on the needs of the child and the class