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|  | **Agricultural Science Dept.  Mr. Jason Hovell** | **Week #8**  **Week of Oct. 21st – 25th , 2013** |  | | | |
|  | **Plant & Soil Science** | **Science 7** | **Food Science & Processing** | **Small Engines** | **Wildlife, Forestry & Aquaculture**  **Instructional Strategies:**  **Resources:**  **Task/Activity/Assignment:** | **Exploring Ag 8** |
| **Monday** | **Objective:** Students learn the true difference between a fruit and a vegetable.  **Instructional Strategies:**  -Individual Lab  **Task/Activity/Assignment:**  -Finish Ch. 3 PP Notes  -Fruit or Vegetable? Assignment  -Finish Poinsettia Soil Testing  **Resources:** | **Objective:**. Students will be able to differentiate an organisms activities into categories of Movement, Waste, Maintenance, Growth/Reproduction.  **Instructional Strategies:**  Individual observations & small groups  **Task/Activity/Assignment:**  Hand Quizzes back  -Inv. 5 Pt. 3  -Energy Use Activity  **Resources:** Lesson Strips (precut & in envelopes) | **Objective:** - Students will learn the science behind fermentation, as well as be able to list 6 fermented food products.  **Instructional Strategies:**  Small Group / Teacher led discussion  **Task/Activity/Assignment:**  Food Science Issues  Fermentation Reading & Assignment  **Resources:** Student Packet | **Objective:** Students learn the theory behind engine operation.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:** -Four-Stroke Engine Cycle Lecture & Notes  **Resources :**4-Stroke PP, Handout | **Objective:** Students will learn hos invasive species become established and spread.  **Instructional Strategies:**  Individual Note Taking  **Task/Activity/Assignment:**  -Invasive Species Self Notes  **Resources:** Invasives Resources PP, Invasive Species Note Packet | **Objective:** Students learn the theory behind engine operation.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:** -Four-Stroke Engine Cycle Lecture & Notes  **Resources :**4-Stroke PP, Handout |
| **Tuesday** | **Objective:** Students learn about the history and care of poinsettias.  **Instructional Strategies:**  Teacher Led Class  **Task/Activity/Assignment:**  Poinsettia PowerPoint  Poinsettia Lab & Observations  **Resources:** PP, student notebooks | **Objective1:**. Students will be able to differentiate an organisms activities into categories of Movement, Waste, Maintenance, Growth/Reproduction. **Objective:2** Students will learn about exponential growth and factors that affect growth.  **Instructional Strategies:**  Partner groups  **Task/Activity/Assignment:**  -Finish Energy Use Activity  -Milkweed Bugs “Limited” Computer Simulation  **Resources:** Functioning Computers, Internet Access, | **Objective:** Students will review the processes used to make breads/cereals, and turn in missing assignments.  **Instructional Strategies:**  Small Group / Teacher led discussion  **Task/Activity/Assignment:**  Cheese PP Project  **Resources:** none | **Objective:** Students learn procedure for proper engine teardown.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:** -Continue Engine Teardown Lab  **Resources :**Text, Wksht , overhead, Tools, Engines | **Objective:** Students are assessed on their comprehension of invasive species.  **Instructional Strategies:**  Group Project  **Task/Activity/Assignment:**  -Review for Invasive Species Quiz  -5 min. to review note sheets  -Invasive Species Quiz  **Resources:** Invasives Resources, Computers, Directions Sheet | **Objective:** Students learn procedure for proper engine teardown.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:** -Continue Engine Teardown Lab  **Resources :**Text, Wksht , overhead, Tools, Engines |
| **Wednesday** | **Objective:** Learn are assessed on their knowledge of the parts and functions of a plant’s flower.  **Instructional Strategies:**  Individual Lab  **Task/Activity/Assignment:**  -Ch. 3 Quiz- www.Quia.com  **Resources:** functioning computers & internet | **Objective:** Students will learn about exponential growth and factors that affect growth.  **Instructional Strategies:**  Partner groups  **Task/Activity/Assignment:**  -Finish Energy Use Activity  -Milkweed Bugs “Unimited” Computer Simulation  **Resources:** Functioning Computers, Internet Access, Worksheet | **Objective:** Students will learn about the processing techniques of the grain corn.  **Instructional Strategies:**  Small Group / Teacher led discussion  **Task/Activity/Assignment:**  Cheese ID  **Resources:** DVD, worksheet | **Objective:** Students learn procedure for proper engine teardown.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:** -Continue Engine Teardown Lab  **Resources :**Text, Wksht , overhead, Tools, Engines | **Objective**: Students will learn the components that make up habitat and how to measure habitat health.  **Instructional Strategies:**  Individual Note Taking  **Task/Activity/Assignment:**  -Habitat Notes Assignment (Individual)  **Resources:** Habitat Notes Wksht, Habitat PP | **Objective:** Students learn procedure for proper engine teardown.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:** -Continue Engine Teardown Lab  **Resources :**Text, Wksht , overhead, Tools, Engines |
| **Thursday** | **Objective** Learn functions of a plant’s parts.  **Instructional Strategies:**  Individual Lab  **Task/Activity/Assignment:**  -Stem/Branch Part Lab  **Resources:** plant branches, overhead w/ parts | **Objective:** Students will research a large US Biome and use technology to present the biological features of the area.  **Instructional Strategies:**  Small Group  **Task/Activity/Assignment:**  -Milkweed Bug Observations  -Finish Fossweb Simulations -Introduce EcoScenario Projects  **Resources:** Functioning Computers, Internet Access, Assignment Sheet | **Objective:** - Students will show proficiency of knowledge of cereal industry and breadmaking on unit assessment.  **Instructional Strategies:**  Small Group / Teacher led discussion  **Task/Activity/Assignment:**  Make Cheese  **Resources:** Exam | **Objective:** Students learn procedure for proper engine teardown.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:** -Continue Engine Teardown Lab  **Resources :**Text, Wksht , overhead, Tools, Engines | **Objective:** Students will learn the components that make up habitat and how to measure habitat health.  **Instructional Strategies:**  Group Project  **Task/Activity/Assignment:**  -Habitat/Biodiversity Sampling Lab  **Resources:** Biodiversity Sampling Lab | **Objective:** Students learn procedure for proper engine teardown.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:** -Engine Teardown Lab  **Resources :**Text, Wksht , overhead, Tools, Engines |
| **Friday** | **Objective:** Students become proficient at testing soil pH & for N, P, K and make soil adjustment recommendations  **Instructional Strategies:**  Individual Quiz  **Task/Activity/Assignment:**  Vineyard Soil Testing  **Resources:** Soil Test Kit | **Objective:** Students will research a large US Biome and use technology to present the biological features of the area.  **Instructional Strategies:**  Small Group  **Task/Activity/Assignment:**  -Milkweed Bug Observations  -Finish Fossweb Simulations -Introduce EcoScenario Projects  **Resources:** Functioning Computers, Internet Access, Assignment Sheet | **Objective:** Students will learn the science behind making cheese.  **Instructional Strategies:**  Small Group / Teacher led discussion  **Task/Activity/Assignment:**  Cheese Taste Test   **Resources:** Cheese Handout | **Objective:** Students learn procedure for proper engine teardown.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:** -Continue Engine Teardown Lab  **Resources :**Text, Wksht , overhead, Tools, Engines | **Objective:** To assess student knowledge of invasive species, and forestry tool knowledge.  **Instructional Strategies:**  Group Project, Assessment  **Task/Activity/Assignment:**  -Finish sampling Lab  -Habitat Quiz  **Resources:** Habitat Quiz | **Objective:** Students learn procedure for proper engine teardown.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:** -Engine Teardown Lab  **Resources :**Text, Wksht , overhead, Tools, Engines |