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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 PowerPointPoinsettia 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 |