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|  | **Agricultural Science Dept.  Mr. Jason Hovell** | **Week #7**  **Week of Oct. 14th – 18th, 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:** Learn parts of a complete flower.  **Instructional Strategies:**  -Individual Lab  **Task/Activity/Assignment:**  Plant Dissection Lab #2  **Resources:** Scalpels, dissection pans, flowers | **Objective:**. Students will be able to calculate the calorie content in food through labwork, and to recognize that food contains energy.  **Instructional Strategies:**  Individual observations & small groups  **Task/Activity/Assignment:**  -Calorie Calculation Lab  **Resources:** cheese balls, foil, matches, stands. Lab sheets | **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 in-depth parts of the crankshaft, piston, and crankcase.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:**  Internal Engine Parts Notes (Piston Parts, Crankshaft, etc)  AES:B.12.1, D.12.4 TES: B.12.8, C.12.9, D.12.1  **Resources :**Text, Wksht , overhead, Tools | **Objective:** To learn 6 common invasive species found within Wisconsin (oak wilt, gypsy moth, Eurasian milfoil, purple loosestrife, zebra mussels, Emerald Ash Borer).  **Instructional Strategies:**  Group Project  **Task/Activity/Assignment:**  -Forest Invasive Species Project  **Resources:** Invasives Resources, Computers, Directions Sheet | **Objective:** Learn to identify the names of 50 common small engines tools.  **Instructional Strategies:** Individual Shop Time to learn tools  **Task/Activity/Assignment:**  Tool ID Assignment  AES:B.12.1, D.12.4 TES: B.12.8, C.12.9, D.12.1  **Resources:** Text, Wksht Tools |
| **Tuesday** | **Objective:** Learn functions of a plant.  **Instructional Strategies:**  Teacher Led Class  **Task/Activity/Assignment:**  -Ch. 3 PP Lecture/Notes  **Resources:** PP, student notebooks | **Objective:**. Students will be able to calculate the calorie content in food through labwork, and to recognize that food contains energy.  **Instructional Strategies:**  Individual observations & small groups  **Task/Activity/Assignment:**  -Calorie Calculation Lab  **Resources:** cheese balls, peanuts, foil, matches, stands. Lab sheets | **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:**  Food Science Issues  **Resources:** none | **Objective:** Students learn procedure for proper engine teardown.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:**  -Distribute Teardown Scripts  -Break into engine groups -Begin Engine Teardown Lab  **Resources :**Text, Wksht , overhead, Tools, Engines | **Objective:** To learn 6 common invasive species found within Wisconsin (oak wilt, gypsy moth, Eurasian milfoil, purple loosestrife, zebra mussels, Emerald Ash Borer).  **Instructional Strategies:**  Group Project  **Task/Activity/Assignment:**  -Forest Invasive Species Project  **Resources:** Invasives Resources, Computers, Directions Sheet | **Objective:** Learn to identify the names of 50 common small engines tools.  **Instructional Strategies:** Individual Assessment  **Task/Activity/Assignment:**  **Tool ID Assignment RETEST**  AES:B.12.1, D.12.4 TES: B.12.8, C.12.9, D.12.1  **Resources:** Text, Wksht Tools |
| **Wednesday** | **Objective:** Learn functions of a plant.  **Instructional Strategies:**  Individual Lab  **Task/Activity/Assignment:**  -Computer Simulation Lab  **Resources:** functioning computers & internet | **Objective:** Students will analyze what plants need in order to survive through observing data.  **Instructional Strategies:**  Individual observations & small groups  **Task/Activity/Assignment:**  -Inv. #5 Pt. 2  **Resources:** Food-Producers Experiment Lab Sheet | **Objective:** Students will learn about the processing techniques of the grain corn.  **Instructional Strategies:**  Small Group / Teacher led discussion  **Task/Activity/Assignment:**  Food Science Issues Modern Marvel Corn **Resources:** DVD, worksheet | **Objective:** Students learn procedure for proper engine teardown.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:**  -Distribute Teardown Scripts  -Break into engine groups -Begin Engine Teardown Lab  **Resources :**Text, Wksht , overhead, Tools, Engines | **Objective**: To learn 6 common invasive species found within Wisconsin (oak wilt, gypsy moth, Eurasian milfoil, purple loosestrife, zebra mussels, Emerald Ash Borer).  **Instructional Strategies:**  Group Project  **Task/Activity/Assignment:**  -Forest Invasive Species Project  **Resources:** Invasives Resources, Computers, Directions Sheet | **Objective:** Students learn procedure for proper engine teardown.  **Instructional Strategies:**  Individual/Small Group Exploration    **Task/Activity/Assignment:**  -Distribute Teardown Scripts  -Break into engine groups -Begin 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 analyze what plants need in order to survive through observing data.  **Instructional Strategies:**  Individual observations & small groups  **Task/Activity/Assignment:**  -Inv. #5 Pt. 2 (Finish)  -Correct Lab sheet in class  -Read pg. 14-16  **Resources:** Textbooks**,** Food-Producers Experiment Lab 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:**  Food Science Issues Chapter Exam **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:** To learn 6 common invasive species found within Wisconsin (oak wilt, gypsy moth, Eurasian milfoil, purple loosestrife, zebra mussels, Emerald Ash Borer).  **Instructional Strategies:**  Group Project  **Task/Activity/Assignment:**  -Forest Invasive Species Project Presentations  **Resources:** Invasives Resources, Computers, Directions Sheet | **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:** Learn parts of a plant  **Instructional Strategies:**  Individual Quiz  **Task/Activity/Assignment:**  -Flower/Stem Quiz  -Poinsettia Care  **Resources:** quiz & answer key, plants in greenhouse | **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:**  -Inv. 5 Pt. 3  -Energy Use Activity  **Resources:** Lesson Strips (precut & in envelopes) | **Objective:** Students will learn the science behind making cheese.  **Instructional Strategies:**  Small Group / Teacher led discussion  **Task/Activity/Assignment:**  Food Science Issues How to make Cheese Lesson   **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  **Task/Activity/Assignment:**  -Forestry Tool, Tool Usage, and Invasives Assessment  **Resources:** Invasives 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 |