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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.12.4TES: 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 AssignmentAES:B.12.1, D.12.4TES: 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.12.4TES: 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 IssuesModern 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 IssuesChapter 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 IssuesHow 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 |