

SAE or Agriscience Experiments in Agriculture

Agriculture Education is comprised of three components. These are the classroom, FFA, and the SAE. SAE stands for Supervised Agriculture Experience. The purpose of this is for you to gain experience to help prepare you for your future. Whether you feel your future is in agriculture or not, learning career skills will help to prepare you for your future. In order to help you complete this portion of this class you will need to complete the following using the website www.theaet.com.



- Complete SAE Agreement and turn in with Parent's signature
- A Weekly journal entry documenting what you accomplished in your project this week as well as any income or expenses related to this project. Even if you do not have time invested this week, you will need to make an entry, simply stating "No Time Invested This Week"
- A Minimum total of 10 hours invested through the course of the quarter. (This equates to 13.3 minutes for each school day of the quarter)
- 2 Photo entries in your journals with a description. (This can qualify as a weekly entry if a description is included)
- Final Journal Entry...Include any three of the following for your final entry...
 - Something you learned that will benefit you in the future
 - A Question you have related to this project for further review
 - Best memory or proudest achievement of this experience
 - Skill learned from this experience
- End of the quarter print out the "Complete Record Book Report"

Grading Rubric: The SAE will comprise 10% of your grade for this class.

Completed SAE Agreement and Parent Signature:___/5

Mid-term SAE Check- 4 weekly entries for your SAE Project:___/12

Final SAE Check a 4 Weekly entries from your SAE Project:___/12

10 Hours Invested Throughout the Class ___/10 (All or Nothing Grade)

2 Photo Entries ___/4

Printed a completed "Complete Record Book"___/10 (Will do in class)

Grammar Throughout Project:___/10

Share Outcome of Project with Class:_____/10

Potential SAE's

- ❖ Document Work Experience related to...(food, natural resources, farming, agribusiness, pumpkin patch, landscaping, food, fiber, natural resources, home improvement...If you can relate it to some facet of agriculture it will probably work)
- ❖ Create an experiment in the greenhouse/headroom
- ❖ Complete a job shadow and journal reflection
- ❖ Compete in a speaking contest
- ❖ Prepare for a Judging Contest
- ❖ Create a food plot, or improve recreational land
- ❖ Lawn care/gardening
- ❖ Train your pet, groom, document behavior
- ❖ Raise an animal
- ❖ Community Service Project
- ❖ Wildlife Habitat Improvement
- ❖ Trapping (Not Hunting or Fishing)
- ❖ Start a business...lawn mowing, leaf raking, snow removal
- ❖ Create a promotional video, pamphlet, etc.
- ❖ Create an experiment at home

Benefits of Completing an SAE

- ❖ Learn about a potential career
- ❖ Earn money while gaining experience
- ❖ Gain Confidence
- ❖ Artifacts for E-Portfolio
- ❖ Network with adults
- ❖ Learn to keep records and financial documents
- ❖ Do something that interests you
- ❖ Time Management & Responsibility
- ❖ Earn Scholarships or SAE Grants
- ❖ Earn FFA Awards at the Local, State, and National Level

Agri-Science Project

Create an Agriculture or Science Based Experiment.

Experiments may fall in one of the categories; Animal Systems, Natural Resources, Food Products and Processing, Plant Systems, Power Structural and Technical Systems, or Social Systems.

Mr. Kolpack is more than happy to assist you in setting up your experiment. He does need to know in advance if you need help setting up an experiment so he can fit it in his schedule.

For this project you will need to complete the following

Complete an experiment and record information. On the final day of the class you will share your findings with the class. You will need to complete a Poster or Tri-Fold display board

Your Display board will need the following:

- Science Experiment Name:
- Hypothesis: Create an experiment using an If-Then Statement
- Materials and Methods: Description of what materials that you used and how you conducted your experiment. This must be thorough enough to describe how someone else would duplicate this experiment.
- Data-Show in a table format the data that you collected for this project
- Conclusion and Results: Share what you found and how this information is beneficial or what you would change in the future.
- 2 pictures of your project

Possible Ideas:

- Ag Literacy in Students at RLHS
- Chart Animal Growth
- Rate of composting
- Wildlife Animal attractants
- Soil Testing
- Testing Antibacterial solutions
- Nutrients
- Test Mileage per gallon
- Plant Growth Experiment
- Food Science Experiment
- Soil Erosion Experiment
- Shore land Preservation
- Monitor Animal Behavior in situations
- Compare Food Plots
- Compare Habitats
- Stream Water Quality
- Impact of light on plants
- Impact of nutrients on plants
- Any other ideas...

Completed SAE Agreement and Parent Signature:____/5

Mid-term SAE Check- 4 weekly entries for your SAE Project:____/12

Final SAE Check a 4 Weekly entries from your SAE Project:____/12

Complete Poster with requirements met and share with class ____/44