

Turnip SAE Project



Overview

This lesson will challenge students to plan, grow, and harvest a marketable crop of turnips before the end of the fall growing season.

Time Needed

- 2-3 class periods with option to do additional work outside of class

Standards

- AFNR-BAS-3 Explore, develop, and implement the Supervised Agricultural Experience (SAE) program by researching careers in agriculture and agribusiness.
 - 3.1 Design, implement, and document SAE by recording steps, skills acquired, and financial information.
 - 3.2 Demonstrate employability skills such as work ethic, timeliness, communication, and self direction.
 - 3.3 Explain the role of the different types of agribusiness in society and identify agribusinesses in the local community.
 - 3.4 Define agribusiness terminology and discuss the role of marketing in agricultural production.
 - 3.5 Analyze skills, education requirements, income, and advantages and disadvantages of careers in the agriculture industry.

Objectives

- Students will understand the process of creating an SAE project and implement the project.
- Students will evaluate how well they grew turnips based on their weight.
- Students will find ways to market their crop and determine how to make the most profit.
- Students will present their completed project to the class.

Turnip SAE Project



Materials

- [SAE Planning Form](#)
- [SAE Website](#)
- Turnips Seeds
- Garden beds or field

Outline

- Engage: Students will try to solve the “Building Bridges” worksheet.
- Explore: Students will explore the SAE process and begin brainstorming their own projects.
- Explain: Teacher will explain the key concepts of goals, planning, and budgeting.
- Extend: Students can examine their own projects and implement them to grow and harvest their own turnip crops.

Lesson Plan

- Engage: Students will be given the “Building Bridges” worksheet and allow them time to solve the problem. Teacher will explain that to solve the problem, students should use what they have learned and then try it for themselves. This is the same process for completing their SAE project.
- Explore: Let the students explore [SAE website](#) and begin determining a project using the provided turnip seeds.
- Explain: Teacher will explain that students will create their own SAE project using the SAE Planning worksheets. Teacher will also teach about SMART goals, time management, and budgeting.
- Extend: Students will design and implement their SAE plan. They will need to keep their teacher updated on their progress.
- Evaluate: Students will evaluate the success of their project based on the overall amount of turnips grown and how well they sold their product to consumers. They will have to present their findings to the class in a presentation.

Lesson Created by Brooke Lewis-Slamkova for Georgia Organics