

# Agriculture ELOs:

## 7<sup>th</sup> Grade

Students will:

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## 8<sup>th</sup> Grade

Students will:

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## Intro to Agriculture

Students will:

- Effectively communicate agricultural concepts and practices.
- Develop problem-solving skills related to real-world agricultural challenges.
- Describe and analyze various types of agricultural systems.
- Describe and plan an SAE.
- Identify potential hazards on the farm, including machinery, chemicals, livestock, and structures.
- Understand the principles of pharmacology and drug administration for animals.
- Understand the anatomy and physiology of various animal species.
- Plan, coordinate and execute 2nd grade day on the farm.

## Animal Science

Students will:

- Explain the relationships between the domestic livestock industry to society and the environment.
- Score dairy cattle on body structure.
- Evaluate the development and implications of animal origin, domestication, and distribution.
- Identify common domestic livestock breeds and select individuals for confirmation and production.
- Formulate feed rations to provide for the nutritional needs of animals.
- Discuss the management and marketing of beef, swine, sheep, goat, poultry, horses, and dairy animals.

## Agriculture Business

Students will:

- Differentiate between various forms of insurance.
- Weigh the advantages to renting or owning a home to fit their needs.
- Create and disseminate a mission statement for business activities.
- Prepare short-term, intermediate, and long-term goals and objectives that are consistent with the mission statement.
- Write job descriptions for specific positions within their business.
- Execute supply-and-demand principles in AFNR businesses.
- Use SWOT (strengths, weaknesses, opportunities to threats) to analyze a business.

## Food Processing

Students will:

- Outline procedures to eliminate possible contamination hazards associated with food products and processing.
- Apply safety and sanitation procedures in the handling, processing, and storing of food products.
- Demonstrate worker safety procedures with food product and processing equipment and facilities.
- Process, preserve, package and present food and food products for sale and distribution.
- Perform sensory testing and marketing functions to determine consumer preference and market potential.
- Analyze food products to identify food constituents.

## **Horticulture**

Students will:

- Discuss the role of the horticulture industry to society and the environment.
- Understand basic plant anatomy and physiology and apply it to plant production.
- Define and apply factors affecting plant growth.
- Propagate plants sexually (seed) and asexually and produce plants in the greenhouse.
- Protect plants from pests and diseases.
- Develop a landscape plan.
- Discuss the growth of small fruits and grow vegetables.
- Implement the principles of floral design into creating an arrangement.

## **Great Outdoors**

Students will:

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## **Leadership**

Students will:

- Understand the importance of teamwork and collaboration in achieving common agricultural goals.
- Effectively communicate the value of agriculture and advocate for the industry.
- Write and utilize a resume.
- Create a portfolio to be used in applying for careers.
- Lead and develop lessons for elementary age students.
- Answer interview questions in aiding them in finding a career.
- Understand and adhere to ethical principles in agricultural leadership.

## **Wildlife**

Students will:

- Identify common WI fish species.
- Explain fishing regulations.
- Name hunting regulations in correspondence to WI DNR.
- Understand and describe an ethical versus an unethical hunt.
- Describe the relationship between different species in our ecosystem.
- Identify animals based on tracks and scat.
- Determine a safe hunting space.