Indiana CTE

Exploring Agriculture Science and Business Ed: Grade 5, 6, 7, 8

Content Standards

1. **Students are able to see the importance of developing leadership skills and how The National FFA Organization (FFA) can be a critical component of a well-rounded agricultural education.**
   - A Recognize and explain the role of FFA in the development of leadership, employability, communications and human relations skills EA.1.1
   - B Develop an understanding of the history of The National FFA Organization EA.1.2
   - C Identify and understand personality types to be able to work with others effectively on a team EA.1.3

2. **Students see the importance of a Supervised Agricultural Experience (SAE) program and how it is a critical component of a well-rounded agricultural education.**
   - A Explain the nature of and become familiar with those terms related to an SAE program EA.2.1
   - B Explore the numerous possibilities for an SAE program which a student might develop EA.2.2
   - C Understand and apply basic record keeping skills EA.2.3

3. **Students have an understanding of plant and soil science and how it relates to the agricultural industry.**
   - A Understand basic needs of plant growth from germination to soil fertility EA.3.1
   - B Explore and recognize the importance of plant and soil science as it relates to the agricultural industry EA.3.2
   - C Identify and describe basic plant structures and their roles within the plant EA-3.4 Identify basic soil properties EA.3.3
   - D Explore the importance of biotechnology as it relates to feeding a growing world population. EA.3.4

4. **Students gain an understanding of preserving and replenishing our natural resources through natural resource management.**

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A Identify renewable and nonrenewable resources and how they relate to everyday life EA.4.1

B Explore the interaction between local natural resources and the economy EA.4.2

C Understand the relationship between wildlife habitats and human population EA.4.3

5. **Students gain an understanding of the importance of the animal industry.**

A Share and explain the care and management of various animals in the livestock and companion animal industries EA.5.1

B Understand the relationship between wildlife habitats and human population EA.5.2

C Explain common uses of animals EA.5.3

D Identify common species and/or breeds of livestock EA.5.4

6. **Students recognize basic economic principles and how they relate to agricultural business management.**

A Recognize the influence of social media as it relates to agricultural businesses EA.6.1

B Define agritourism and how it affects the agricultural industry EA.6.2

C Apply principles of personal finances that are used in everyday life EA.6.3

7. **Students examine components of the food science industry and how they relate to agriculture.**

A Explore how various foods are grown and processed through the concept of farm to plate. EA.7.1

B Apply concepts of MyPlate to a balanced diet for all ages EA.7.2

C Recognize food safety principles and management techniques EA.7.3

8. **Students gain a basic understanding of agricultural power, structure, and technical systems.**

A Recognize and apply safety principles as they relate to agriculture and everyday life EA.8.1

B Identify and understand the uses of various hand and power tools EA.8.2

C Explore modern technology applications within the agriculture industry EA.8.3

9. **Students examine the scope of career opportunities in and the importance of agriculture to the economy.**

A Evaluate the nature and scope of agriculture in society and the economy EA.9.1

B Describe career opportunities and means to achieve those opportunities in agriculture EA.9.2

C Explore those qualities, attributes, and skills necessary to succeed in a chosen agricultural career EA.9.3