Iowa CTE

Agriculture, Food and Natural Resources Service Area: Middle School (5-8)

Employability Skills: (overarching comprehensive standard statement) 1	1	Demonstrate transferable knowledge and skills like attitudes, teamwork, leadership in the learning environment. 1.1
	2	Create an environment that encourages and respects the ideas, perspectives, and contributions of all group members. 1.2
	3	Evaluate effective conflict prevention techniques. 1.3
	4	Apply the roles of decision making and problem solving in reducing and managing conflict. 1.4
	5	Demonstrate effective responses to bullying harassment. 1.5
Career Exploration 2	1	Summarize career pathways within industries; including education needed, training requirements, knowledge, skills, attitudes, and available opportunities. 2.1
Develop Effective Safety Practices 3	1	Demonstrate safety and sanitation procedures for a clean and safe environment. 3.1
	2	Students apply safety practices in the learning environment. 3.2
Ethics in the Workplace 4	1	Model ethical behavior and sound decision-making principles in the learning environment. 4.1
	2	Examine how the industry contributes to or influences society. 4.2
Leadership & Career and Technical Student Organizations (CTSOs) 5	1	Demonstrate leadership skills and abilities in school and community settings through participation in civic and community leadership and teamwork opportunities. Exhibit traits such as compassion, service, listening, coaching, developing others, team development, and understanding and appreciating others. 5.1
		xplore how Iowa's career and technical student organizations (CTSOs) are ntegral components of career and technical education courses through

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compounding leadership experiences and professional skill development, service learning opportunities in the school and community and experiential work- and project-based learning and competitive events. 5.2

Agriculture, Food and Natural Resources Service Area Standards

1. Define agricultural products and natural resources consumed by humans. (including food, feed, fuel, fiber, pharmaceuticals, air and water). 1
2. Discuss how human activities impact the production of agricultural products and the effect they have on the health of natural resource. 2
3. Debate the influences weather and climate have on the agricultural activities that occur in a region and the effect they have on the availability of agricultural products. 3
4. Connect how the physical and biological complexity of soil makes the task of measuring soil health and the task of determining soil uses a challenge. 4
5. Evaluate how agricultural STEM achievements contribute solutions to the problems and challenges related to meeting the needs of a growing world population. (Engineering and Technological Innovations, Food Processing and Safety to make essential nutrients more available while using renewable energy sources and conserving natural resources). 5
6. Imagine how agricultural applications can contribute solutions for human/wicked problems. 6
7. Investigate career opportunities for all interest areas that can be explored through agricultural education program participation (ag classes, SAE and FFA). 6