Nebraska CTE

Agricultural Technology (2021-)

Assess agricultural technology and how it relates to modern agriculture. AFNR.HS.8.1	**a** Identify a variety of agricultural technologies used in production agriculture (e.g., livestock, agronomy, agribusiness, horticulture). AFNR.HS.8.1.A
	b Compare historical technologies and how agriculture changed through different revolutions. AFNR.HS.8.1.B
	c Discuss how technologies relate and interact with modern agriculture. AFNR.HS.8.1.C
Identify the components of the Global Positioning Systems (GPS). AFNR.HS.8.2	**a** Describe the design of GPS. AFNR.HS.8.2.A
	b Identify factors influencing GPS accuracy and potential uses/applications. AFNR.HS.8.2.B
	c Utilize GPS to solve problems in the agricultural industry. AFNR.HS.8.2.C
	d Describe steps to install, maintain, and service instrumentation and equipment used for precision technologies. AFNR.HS.8.2.D
	e Identify various precision technologies in planning crop production (e.g., precision soil sampling techniques, variable rate applications, precision planting applications) AFNR.HS.8.2.E
Demonstrate Geographic Information Systems (GIS) Software. AFNR.HS.8.3	**a** Utilize GIS software to create, analyze, and edit production maps. AFNR.HS.8.3.A
	b Analyze the economic impact of using GIS and other geospatial technologies. AFNR.HS.8.3.B
	c Classify data for usage in GIS software. AFNR.HS.8.3.C
Utilize legal description and mapping data. AFNR.HS.8.4	**a** Analyze methods of describing and locating land. AFNR.HS.8.4.A
	b Differentiate types of legal description (e.g., Rectangular Government Survey, Metes and Bounds, Lot/Block Numbering on a Plat Map). AFNR.HS.8.4.B
	c Demonstrate the ability to locate land using GPS, GIS, and/or Legal Descriptions. AFNR.HS.8.4.C

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Compare and contrast current Unmanned Aerial vehicles and drone systems. AFNR.HS.8.5

- **a** **Identify how UAV's are utilized in many different areas of agriculture.** AFNR.HS.8.5.A
- **b** **Identify the government rules and regulations associated with UAV's for making man agement decisions within the agriculture sector.** AFNR.HS.8.5.B
- **c** **Classify different types of drones and how they are used.** AFNR.HS.8.5.C