Kentucky CTE

MS Ag Education: Level 3 (2025)

Ag Systems

Animal Science

1 Recognize the signs and symptoms of poor animal health (diseases, parasites, disorders) OC1

2 Identify processes to prevent the spread of diseases, parasites, and disorders (sanitation,biosecurity, VCPR) OC2

3 Evaluate livestock or companion animals based on industry standards. OC3

4 Demonstrate safe handling techniques and proper restraint methods for animals. OC4

Plant Systems

5 Explain the harmful and beneficial effects of various organisms in relation to plant production (insects, microbes, fungi) OC5

6 Identify agricultural practices related to preventing plant pests and diseases. OC6

7 Analyze the life cycle of plants in relation to optimal growing conditions and seasons. OC7

8 Utilize the applications of art and design in agriculture/horticulture. OC8

Agricultural Power, Structural and Technical Systems

9 Identify and safely operate basic power tools (drill, skill saw, etc.) and/or equipment in the agriculture mechanics laboratory. OC9

10 Plan, estimate cost, and construct basic agricultural construction/mechanics projects. OC10

11 Discuss and demonstrate safety procedures and appropriate behavior while working in the agriculture classroom, laboratory, and/or worksite. OC11

Agriscience

12 Connect and apply scientific concepts in practical agricultural applications. OC12

13 Operate basic laboratory equipment and measurement devices (microscope, graduated cylinder, scale, etc.) OC13

14 Analyze technological trends and research in agriculture and natural resources. OC14

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	15 Employ the steps of the scientific method in conducting an investigation related to agriculture. OC15
Consumerism	**Consumerism**
Identify primal and retail cuts of meat. OC16	**16 Identify primal and retail cuts of meat.** OC16
Demonstrate practices to prevent food-borne illnesses (food safety, cooking temperatures/thawing, cross-contamination, sanitation, allergens.) OC17	**17 Demonstrate practices to prevent food-borne illnesses (food safety, cooking temperatures/thawing, cross-contamination, sanitation, allergens.)** OC17
Evaluate consumer demand and its impact on agricultural production practices. OC18	**18 Evaluate consumer demand and its impact on agricultural production practices.** OC18
Identify the four P's/marketing mix used in a marketing plan for agricultural products (product, place, price, promotion.) OC19	**19 Identify the four P's/marketing mix used in a marketing plan for agricultural products (product, place, price, promotion.)** OC19
Identify how communication technology (social media, print news, television) impacts public perception of the agricultural industry and how these can be used to positively advocate for the industry. OC20	**20 Identify how communication technology (social media, print news, television) impacts public perception of the agricultural industry and how these can be used to positively advocate for the industry.** OC20
Careers	**Careers**
Explore basic employability skills (resumes, applications, cover letters, interview skills.) OC21	**21 Explore basic employability skills (resumes, applications, cover letters, interview skills.)** OC21

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cover letters, interview skills.) OC21	
Formulate individual and business goals and objectives. OC22	22 Formulate individual and business goals and objectives. OC22
Maintain basic records related to Supervised Agricultural Experience (SAE) programs, community involvement, and personal finance. OC23	23 Maintain basic records related to Supervised Agricultural Experience (SAE) programs, community involvement, and personal finance. OC23
Leadership	Leadership
Develop a plan for an activity (FFA event, fundraiser, community service project, etc.) OC24	24 Develop a plan for an activity (FFA event, fundraiser, community service project, etc.) OC24
Demonstrate professional public speaking ability through a speech, demonstration, or presentation. OC25	25 Demonstrate professional public speaking ability through a speech, demonstration, or presentation. OC25
Identify the components of a successful meeting (agenda, minutes, procedures.) OC26	26 Identify the components of a successful meeting (agenda, minutes, procedures.) OC26