

# Introduction to Agriculture (2018)

## Concepts of Agriculture COA

- 1 Analyze how the world population affects today's agriculture industry. COA.1
- 2 Identify significant historical developments in agriculture COA.2
- 3 Examine important research achievements in agriscience and future research implications. COA.3
- 4 Compare and contrast the methods of agriculture used in the local, county, state, nation, and world. COA.4
- 5 Describe the importance of agriculture products in everyday life. COA.5
- 6 Discuss current agricultural events that impact the local community and state. COA.6

## Careers in Agriculture CIA

- 1 List the career pathways for agriculture, food and natural resources CIA.1
- 2 Research a potential agriculture career based on your interests. CIA.2
- 3 Develop a strategy to advance in that career. CIA.3

## Leadership L

- 1 Define and identify characteristics of leadership L.1
- 2 Identify available leadership opportunities L.2
- 3 Differentiate between a group and a team L.3
- 4 Define teamwork and identify benefits to working in teams L.4
- 5 Understand and create personal goals using S.M.A.R.T. goals. L.5
- 6 Describe the purpose and benefits of parliamentary procedure. L.6
- 7 Demonstrate five parliamentary procedure motions. L.7

## Oral Communications OA

- 1 Organize notes and ideas for formal, semiformal, and informal presentations. OA.1

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- 2 Prepare and deliver a presentation appropriate to subject matter, purpose, and audience.** OA.2
  - 3 Use interviewing techniques to gather information.** OA.3
  - 4 Participate in group communication activities.** OA.4
  - 5 Incorporate visual media into a presentation.** OA.5
  - 6 Demonstrate concise impromptu speaking skills.** OA.6
  - 7 Give oral directions.** OA.7
  - 8 Demonstrate job interview skills.** OA.8
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### **Agribusiness Systems** AGS

- 1 Compare the three segments of agribusiness.** AGS.1
  - 2 Identify examples of each segment and its role in the community.** AGS.2
  - 3 Define entrepreneurship.** AGS.3
  - 4 Identify methods of marketing.** AGS.4
  - 5 Graph an agricultural example of supply and demand.** AGS.5
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### **Plant Systems** PS

- 1 Identify and define the functions of vegetative and reproductive parts of plants.** PS.1
  - 2 Distinguish between sexual and asexual reproduction.** PS.2
  - 3 Compare and perform the primary methods of asexual reproduction in plants.** PS.3
  - 4 Identify the top five crops in your county and state.** PS.4
  - 5 Describe the requirements for plant growth.** PS.5
  - 6 Compare and contrast monocots and dicots.** PS.6
  - 7 Identify machinery used in forage, crop, horticulture, and landscape businesses** PS.7
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### **Animal Systems** ANS

- 1 Define domestic animals.** ANS.1
- 2 Identify the basic needs and proper care of animals.** ANS.2
- 3 Discuss the purposes of livestock and companion animals.** ANS.3

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**4 Define and describe the difference between animal rights and animal welfare.** ANS.4

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**5 Compare animal digestive systems.** ANS.5

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**6 Identify and compare breeding management systems (reproduction).** ANS.6

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**7 Identify animal terminology** ANS.7

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**8 Identify major breeds of livestock.** ANS.8

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**9 Identify types of companion animals.** ANS.9

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**10 Describe trends in the animal science industry** ANS.10

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**11 Research an animal of your choice.** ANS.11

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**Power Structural and  
Technical Systems** PSTS

**1 Research and identify components required in a health and safety performance plan.** PSTS.1

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**2 Identify emergency response procedures for health and safety issues at AFNR workplaces.** PSTS.2

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**3 Examine and categorize examples of how to avoid health and safety issues at AFNR workplaces.** PSTS.3

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**4 Demonstrate safety practices in laboratory work.** PSTS.4

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**5 Locate safety equipment and emergency exits in the agricultural mechanics laboratory.** PSTS.5

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**6 Identify standard tools, equipment and safety procedures related to AFNR tasks.** PSTS.6

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**7 Demonstrate proper safety techniques for using hand and power tools.** PSTS.7

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**Natural Resource  
Systems** NRS

**1 List and describe major kinds of natural resources.** NRS.1

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**2 Define sustainable resources.** NRS.2

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**3 Compare and contrast conservation and preservation.** NRS.3

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**4 List types of alternative fuels and explain why they are important.** NRS.4

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**5 Illustrate and describe the food chain.** NRS.5

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**6 Identify wildlife habitats for native Kansas animals.** NRS.6

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**7 Research an endangered species.** NRS.7

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**8 Identify the major components of soil.** NRS.8

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**Environmental  
Systems** ES

**1 Discuss major types and sources of pollution.** ES.1

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**2 Develop a plan of action to improve the environment.** ES.2

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**3 Illustrate the water cycle.** ES.3

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**4 Discuss global warming and the greenhouse effect.** ES.4

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**5 Discuss alternative fuels and connection to agriculture.** ES.5

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**Food Products and  
Processing  
Systems** FPPS

**1 List the steps food must go through to from the producer to the consumer.** FPPS.1

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**2 Identify food safety concerns.** FPPS.2

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**3 Identify government agencies involved in food production.** FPPS.3

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**4 Discuss biotechnology advancements currently in the food industry.** FPPS.4

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**5 Discuss future developments predicted for the food industry.** FPPS.5

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**Agricultural Issues** AI

**1 Define agricultural industry terms (ex. Biotechnology, bio-terrorism, wind power).** AI.1

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**2 Identify and describe a technological advancement that has happened in the last five years.** AI.2

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**3 Research a current agriculture issue.** AI.3

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**4 Discuss nutritional needs of humans and the food groups they need.** AI.4

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**6 Cite important relationships between land characteristics and water quality.** AI.6

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**Resource  
Management** RM

**9 Locate information and select the materials, tools, and equipment needed to perform an activity or build a project.** RM.9

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**10 Determine cost, time, and resources needed to complete a task within an industry or occupation.** RM.10

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**11 Explain the relationship between setting goals and managing money.** RM.11

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**12 Identify fixed and flexible expenses.** RM.12

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**13 Identify planned and impulse buying.** RM.13

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