Middle School Agriscience CDE

Contest Description and Rules

Please direct questions to:

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Description: The middle school Agriscience CDE is a competition for middle school FFA members who wish to have the opportunity to experience what a variety of CDE competitions are like. The competition includes content from animal science, plant science, agricultural mechanics, food science and FFA. Each participant will compete in all 5 areas which within themselves will include identification and a portion of the multiple choice exam. Below you will find a further breakdown of topics to study.

Animal Science

Identification:

- Parts of the Pig
  - Shoulder
  - Loin
  - Jowl
  - Rump
  - Back
  - Hock
  - Rear Flank
  - Snout
- Breed Identification
  - Dairy Breeds
  - Beef Breeds
  - Swine Breeds
  - Horse Breeds
  - Chicken Breeds
  - Rabbit Breeds
  - Sheep Breeds
Written Exam:

- Digestive Systems
  - Ruminants
  - Modified ruminants
  - Hind gut fermenters
- Animals to be familiar with:
  - Dogs
  - Horses
  - Cattle
  - Rabbits
  - Llamas

Topics
  - Gestation Periods
  - Fur types
  - Offspring Terminology

Plant Science

Identification:

- Plant Part
  - Internodes
  - Leaves
  - Nodes
  - Petals
  - Pistil
  - Receptacle
  - Root Hairs
  - Sepal
  - Stamen
  - Terminal Bud
- Common Crops
  - Alfalfa
  - Dent corn
  - Field corn
  - Red clover
  - White clover
  - Oats
  - Wheat
  - Barley
  - Rye

Written Exam:

- Basic horticultural plant care
  - Fertilizing
  - Basic Requirements for Life (Air, Water, Sunlight, Temperature)
  - Photosynthesis
  - Pest management
- Field Scenarios
  - Pest Damage
  - Weather Damage
  - Fertilizer Damage
Agricultural Mechanics

Identification:

- Hand Tools
  - Adjustable Wrench
  - Caliper
  - Combination Square
  - Curved Claw Hammer
  - Flat Head Screwdriver
  - Hand Saw
  - Phillips Screwdriver
  - Pipe Wrench
  - Slip Joint Pliers
  - Tape Measure

- Portable Power Tools
  - Belt Sander
  - Circular Saw
  - Jigsaw
  - Portable Drill
  - Router

Written Exam:

- Mechanics Lab Safety
  - Personal Protection Equipment
  - Shop Safety Color Coding System
  - Shop Facility Safety

Food Science

Identification:

- Primal Sheep Cuts
  - Leg
  - Loin
  - Rack
  - Breast
  - Shoulder
  - foreshank

Written Exam:

- Food Safety
  - Temperature ranges for cooking, holding, and cooling
  - Food Nutritional Comparisons (ie Banana vs potato)

- Vocabulary
  - Preservatives
  - GMO’s
FFA Knowledge

Identification:
- Officer Stations
- Parts of the FFA Emblem
- Degree Pins/Charms
- Official Dress
- Official Colors
- SAE Categories

Written Exam:
- FFA Knowledge
  - Purpose of FFA
  - FFA Mission
  - Membership Requirements
  - 3 components of agricultural education (3-Circle Model)
  - SAE types
  - CDE areas
  - FFA Degrees
  - Official Colors
  - Important Dates in National FFA History
    - Smith-Hughes Act
    - FFA established
    - FFA Creed adopted
    - FFA Jacket adopted
    - NFA founded
    - FFA and NFA merge
    - FFA opened to female students
    - National FFA Alumni founded
    - Name change to National FFA Organization
    - National FFA Center in Indianapolis opens
    - FFA Discovery Degree added
  - Current WI and National FFA Officer Team
  - New rules for official dress
  - Opening ceremonies Reporter Change

Scoring: Teams can consist of up to 5 members that will compete separately from one another during the competition. The team score will be calculated by adding the top two individual scores.