

2025 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 5th, 6th, 7th, & 8th grade students who wish to have the opportunity to experience what a variety of CDE competitions are like.

The Middle School CDE will evaluate general knowledge in the broad areas of Agriculture and Natural Resources. The knowledge and skills needed are:

- Use of basic terminology of agriculture and ecological management.
- Identification of common plant and animal species and their basic ecology.
- Understanding of the basic laws and regulations pertaining to agriculture production, science, and conservation.
- Use of common management/research techniques related to agriculture.
- Current issues in agriculture.

Scoring:

Teams will consist of four members and all 4 scores make up the team score.

The team score will be calculated by scantron which can be accessed here:

<https://www.judgingcard.com/ScanSheets/samples/482.pdf>

Tie Breakers:

Individual: If ties occur, the following events will be used in the listed order to determine award recipients: 1. Written exam 2. Identification 3. Team Activity #1 practicum. The higher score is used to break the tie.

Team: If ties occur, the following events will be used in the listed order to determine award recipients: 1. Team activity #1 2. Team activity #2 3. Identification. The higher score is used to break the tie.

Written Examination

- 50 test questions will relate to general agriculture information covering the topics listed on CDE website and questions from the [2025 Middle School Test Bank](#)
- Some questions may include photos, identification materials, and math problems. All questions will be multiple choice and valued at 2 points.

Identification

- Identification will consist of identifying 50 items from the [2025 ID List](#)
- Under NO circumstances are the contestants to touch the materials that will be present for the identification of the contest!!
- Identification may include pictures or actual items.
- Contestants will have 30-60 seconds to complete each Identification complete with recording numeric answers on the scantron sheet. In the specimen ID area
- Value of 3 points each per item/questions

Practicum

- The 2025 Middle School Agriscience Practicum will either be Ear Notching OR Reading a Medicine Label
- The practicum will come from the [Middle School Practicum List](#) and could relate to multiple areas.
- Each year a practicum focus area(s) will be chosen before the contest allowing contestant time to prepare.
- Team members will work together to complete the practicum.

Categories and Items for ID and Written Test

- This is not a comprehensive list, for the full list follow the links to the State ID List and Test Bank above

ANIMAL SCIENCE

Identification:

- Parts of Cattle

- | | | |
|--------------------------------|-------------------------------|-------------------------------|
| <input type="radio"/> Flank | <input type="radio"/> Brisket | <input type="radio"/> Back |
| <input type="radio"/> Ear | <input type="radio"/> Elbow | <input type="radio"/> Withers |
| <input type="radio"/> Eye | <input type="radio"/> Hoof | <input type="radio"/> Neck |
| <input type="radio"/> Poll | <input type="radio"/> Hips | <input type="radio"/> Rump |
| <input type="radio"/> Muzzle | <input type="radio"/> Jaw | <input type="radio"/> Hock |
| <input type="radio"/> Shoulder | <input type="radio"/> Throat | <input type="radio"/> Leg |
| <input type="radio"/> Barrel | <input type="radio"/> Mammary | <input type="radio"/> Udder |
| <input type="radio"/> Switch | <input type="radio"/> Vein | <input type="radio"/> Pastern |

- Animal Feed

- Soybean Meal
- Alfalfa
- Oats
- Haylage
- Molasses
- Yellow Corn
- Corn Stalk
- Corn Silage
- Wheat

Written Exam:

- Animals to be familiar with

- Cattle (Beef and Dairy)
- Goats
- Horses
- Poultry
- Small Animals
- Swine
- Sheep

- Animal Supplies and Equipment

- Halter
- Ear Tagger
- Ear Tags
- Clippers
- Ear Notcher
- Tooth Nipper
- Tattoo Gun
- Esophageal Tube Feeder
- Implant Gun

- Nutrition

- Forages
- Concentrates

Environmental Science

Identification:

- Wildlife Tracks

- Black bear
- Whitetail Deer
- Fox
- Cougar
- Coyotes
- Wolf
- Turkey
- Pheasant
- Rabbit
- Squirrel
- Chipmunk
- Raccoon

- Weed ID

- Dandelion
- Crabgrass
- White Clover
- Wild Mustard

- Creeping Charlie
- Lamb's Quarter

- Thistle
- Milkweed
- Nettle

Or

- Plant ID

- Anthurium
- Celosia
- Coleus

- Croton
- Dusty Miller
- Mum

- Salvia
- Snap Dragon
- Begonia

Written Exam:

- Soils

- pH Levels (base v. acid)
- Soil Permeability

- Irrigation Sustainability

- Soil Structure

Agricultural Mechanics

Identification:

- Engine Parts

- Engines
- Piston
- Connecting Rod
- Cylinder Wall

- Crank Shaft
- Spark Plugs
- Head Gasket
- Crank Case

- Intake Valve
- Exhaust Valve
- Camshaft
- Carburetor

- Tools

- Adjustable Wrench
- Allen Wrench
- Bolt Cutters
- Tire Gauge
- Jack
- Socket Wrench
- Vice grips
- Tire Chuck
- Torque Wrench
- Phillips Screwdriver
- Flathead Screwdriver
- Clamps
- Pliers
- Impact Wrench
- Breaker Bar
- Hammer
- Jack
- Socket Wrench

Written Exam:

- Shop Safety
- Equipment Maintenance
- Tractor Safety
- PTO, HP, Hydraulics
- ROPS
- Power Consumption
- Slow Moving Vehicles

Food Science

Identification:

- Primal Lamb

- Shoulder
- Rack
- Loin
- Leg
- Breast

- Retail Cuts of Turkey

- Breast
- Wings
- Gizzard
- Thighs
- Ground Turkey
- Drumsticks
- Whole Turkey

Written Exam:

- Nutrients

- Carbohydrates
- Proteins
- Fats/Lipids
- Vitamins
- Minerals
- Water

- Vocabulary

- Flash Pasteurization
- Nutrients
- Food Preservation
- Microbial Growth

- Food Safety

- Foodborne Illness
 - What is it?
 - Common Pathogens
 - Symptoms
- "Danger Zone"

FFA

Identification:

- Officer Stations
- Official FFA Colors
- Official Dress
- SAE Categories
- Parts of the FFA Emblem

Written Exam:

- FFA Knowledge

- FFA Mission
- Degrees
- Membership Requirements
- LDEs
- Official Colors
- CDEs
- Current Statistics
 - National FFA Membership
 - 23-24 National Officer Team
 - WI Membership
 - 23-24 WI Officer Team
- Important Dates in National and State FFA History
 - Smith - Hughes Act Passed
 - FFA Creed Adopted
 - Name change to National FFA Organization
 - FFA Established
 - NFA & FFA Merged
 - National FFA Center in Indiana Opened
 - WI FFA Established
 - FFA Opened to Female Students
 - FFA Opened to Middle Schoolers