

## ENTOMOLOGY CDE GUIDE

### 3-4 Member Team

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#### I. PURPOSE

The Entomology Career Development Event aims to introduce students to the fundamentals of insect science. Understanding the role of arthropods in complex ecological cycles is of utmost importance to agricultural crops and animal production, human health and well-being, biodiversity and conservation. This CDE is intended to engage students in learning the broad scope of the field of entomology including insect characteristics, development, adaptations, feeding, their impact on humans, their ecological importance, the taxonomy and nomenclature used by entomologists, and careers within entomology.

#### II. EVENT FORMAT

##### A. Team

1. One entomology team is composed of up to four members.
2. Schools not entering a team may enter up to 4 students in individual competition.

##### B. Equipment

1. Pencil (required)
2. Eraser (recommended)
3. Clipboard (recommended)
4. Hand lens (10x magnification recommended)

##### C. Event

1. This event consists of 2 parts taken in 2 separate locations. Both will be answered on a single Judging Card scoresheet using a pencil. Contestants will be divided into two groups and switch locations to complete the other half. Sections of the CDE contest may be taken in either order.
2. Contestants will complete each section with other contestants during allotted time.  
Section 1: Insect Identification – approximately 40 mins  
Section 2: Multiple Choice – approximately 40 mins

#### III. EVENT RULES

- The combined three highest scores for a team will be the team score.
- No talking, comparing, or copying.
- Hats, jackets, and backpacks are allowed to remain in the ID lab where they will be kept secure. These items are not allowed with a participant during the contest.
- Contest questions will be taken from study resources listed in the Entomology CDE Guide.
- The judges' decision is final. Superintendent: Dr. Andrine Shufan, (405) 744-7755.

**IV. SECTION 1**

Insect Identification

Section 1 of the contest will be identification of pinned arthropods from the OKFFA Ento CDE Insect ID List of 105 species and the OKFFA Ento CDE Ordinal Characteristics List. For each listed arthropod, questions will be obtained from the following categories: common name, scientific order name, metamorphosis type, mouthparts type, and significance within the ecosystem.

- 25 stations. Stations are clearly numbered 1-25. When you finish a station, remain at that station until time is called. Move to the next (higher, larger, sequential) numbered station. When a participant completes station #25, move next to station #1.
- A maximum of 1 minute is allowed at each station.
- Each station contains a physical arthropod specimen. The entire specimen box may be lifted to examine closely. Do not remove any specimen or vial from the box.
- No stations will be repeated.
- Answer sheets will be collected at the end of this section.
- All portions of the test will remain with the superintendent.
- At the completion of BOTH sections, the superintendent will review the ID section with participants in NRC rm 130.
- No photographs of specimens are allowed.

**V. SECTION 2**

Multiple Choice

The questions for Section 2 will derive from the University of Nebraska publications *Introduction to Entomology* and *Entomology*.

- 50 questions.
- Answer sheets will be collected at the end of this section.
- All portions of the test will remain with the superintendent.
- There is no test question bank.

**VI. SCORING**

Section 1..... 200  
Section 2..... 200

Total Points

Individual ..... 400  
Team..... 1200

Tied scores for team or individual contests will be broken according to highest points accumulated in Section 1.

## STUDY MATERIALS

- *Introduction to Entomology* (2014). University of Nebraska-Lincoln Extension. EC1588. \$4.25 through: <https://marketplace.unl.edu/extension/ec1588.html>
- *Entomology* (2015). University of Nebraska-Lincoln Extension. 4H4120 \$7.95 through: <https://marketplace.unl.edu/extension/entomology.html>
- [OKFFA Ento CDE Arthropod ID List 2026](#)
- [OKFFA Ento CDE Insect Order Characteristics 2026](#)
- PowerPoint “flashcard” slides to the 105 contest insects