

1. **DESCRIPTION:** Students will be asked to identify insects and selected immature insects by order and family, answer questions about insects and use or construct a dichotomous key.

**A TEAM OF UP TO:** 2

**APPROXIMATE TIME:** 50 minutes

2. **EVENT PARAMETERS:** Each team may bring one 8.5" x 11" two-sided page of information in any form from any source (e.g., notes, insect lists, etc.) and one commercially published resource that may be annotated, and tabbed (limit 3 words on tabs), and a hand lens or magnifying glass. The Supervisor will provide an answer sheet and if needed, dissecting microscopes.

3. **THE COMPETITION:**

- a. Teams will be asked to identify an insect's Order, Family or common name and answer a related question(s). Questions are **limited** to topics below and Insects are **limited** to those listed on the Official Insect List, which is based on the Audubon Insect and Spider Field Guide.
- b. Insect specimens or images (nymph or larva for selected orders and families) will be exhibited so that students will be able to see pertinent features with the unaided eye or a hand lens.
- c. For any individual specimens, questions may also be asked concerning the economic or health impact of the specimen upon the human race.
- d. Topics may include structure and function of internal and external anatomy, ecology, behavior, and history.
- e. One of the stations may involve students using or formulating a simple dichotomous key to identify insects.



4. **SCORING:** The team with the highest number of correct answers will determine the winner. Selected questions may be used as tiebreakers.

**Recommended Resources:** All reference and training resources including the **Audubon Insect and Spider Guide**, the **Taxonomy CD (TXCD)** and the **Bio/Earth Sci CD (BECD)** are available on the Official Science Olympiad Store or Website at [www.soinc.org](http://www.soinc.org)

**This Official Insect List is available at [www.soinc.org](http://www.soinc.org) under B/C Events/Entomology**

## 2014 Entomology (B/C) – Official Insect List

Specimens will be **limited to those on the** Official list of **30** insect orders and **100** families. Orders or Families marked by an "\*" require that the contestant be able to recognize larvae or nymph forms. **The taxonomic scheme is based upon the Audubon Insect and Spider Field Guide. Any arbitrations questions will defer to this resource as the correct answer.**