

## DON'T BUG ME

### Description:

The contestants are to distinguish insects from non-insects, identify various body parts, characteristics, habitats, ecological significance, life cycles, and major classes and orders of arthropods.

Number of Participants: 1-2      Approximate Time: 1 hour

### The Competition:

1. Participants will be asked two part questions at each of 20-25 stations. Depending upon availability, pictures, preserved or living specimens may be used.
2. Questions will include the major classes of arthropods and orders of insects. Classes: ARACHNIDA, CHILOPODA, CRUSTACEA, DIPOLODA, INSECTA (HEXAPODA). Orders: Thysanura, Orthoptera, Isoptera, Neuroptera, Ephemrida, Odonata, Mallophaga, Anoplura, Hemiptera, Homoptera, Dermaptera, Coleoptera, Trichoptera, Lepidoptera, Diptera, Siphonaptera, Hymenoptera. The second part will test student's knowledge about other items mentioned in the description. Questions will be multiple choice. \*
3. Participants may develop and bring to the competition a key to aid them in answering these questions. \*

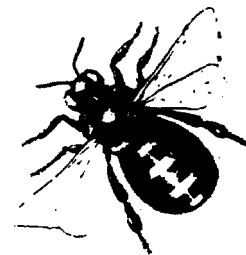
### Scoring:

One point for each correct answer. The last five questions may be more difficult to avoid ties and they may be tie breaker questions.

### SAMPLE QUESTIONS

#### **Grasshopper**

- A. To which order does this insect belong?
  1. Diptera      2. Odonata      3. Orthoptera
- B. What is the purpose of the leg on the last thoracic segment?
  1. Walking    2. food gathering    3. jumping    4. mating



#### **Picture of a feathery antenna of a moth**

- A. What class of insects has this kind of antenna?
  1. Coleoptera    2. Lepidoptera    3. Diptera
- B. What do we call this type of antenna?
  1. laminate    2. club    3. plumes

### REFERENCES \*

- Guide to Insects, Ross H. Arnett, Jr. and Richard L. Jacques, Jr., Simon and Schuster, 1981.  
How to Know the Insects, Roger G. Bland and H.E. Jaques, Wm. C. Brown, 1978.  
An Introduction to the Study of Insects, Donald Borror, Dwight M. DeLong and Charles Triplehorn, Holt, Rinehart and Winston, 1976.  
Looking at Insects, David Suzuki, Warner Books, 1986.  
 "Incredible Insects," 2 parts, Nature Scope, National Wildlife Federation, 1986.  
 Entomological Series, 3 volume set, 4-H Youth Programs, Cooperative Extension Service, Michigan State University, East Lansing, Michigan.  
 Lawn Guide and Pond Guide, OBIS, University of California, Berkeley, 1978.

## **Don't Bug Me clarifications**

Questions will not be limited to multiple choice.

Key must be in students' handwriting. Handwriting on student-generated key needs to match handwriting on test. Key is not mandatory.

Neither *Homoptera* nor *Hemiptera* will be a correct answer on the test.

Other resources:

[Insectidentification.org](http://Insectidentification.org)

[Insectidentification.net](http://Insectidentification.net)

[Bugguide.net](http://Bugguide.net)