## ORDERS OF INSECTS

The following 29 insect orders are numbered in the order of evolutionary complexity with the oldest and most primitive groups listed first. They are also gathered together into a number of groups

| Taxonomic Name | Common Name | Species Worldwide |
| :---: | :---: | :---: |
| The Apterygota (Wingless insects with no true metamorphosis at all) |  |  |
| Thysanura | 3-Pronged Bristletails | 55 |
| Diplura | 2-Pronged Bristletails | 600 |
| Protura | Proturans | 10 |
| Collembola | Springtails | 3,000 |
| The Exopterygota (Hemimetabolous insects with incomplete metamorphosis) |  |  |
| Ephemeroptera | Mayflies | 2,000 |
| Odonata | Dragons and Damsels | 5,000 |
| Plecoptera | Stoneflies | 1,700 |
| Grylloblatodea | Ice Bugs | 16 |
| Orthoptera | Grasshoppers, Crickets | 20,000 |
| Phasmida | Stick Insects | 3,000 |
| Dermaptera | Earwigs | 1,200 |
| Embioptera | Web Spinners | 300 |
| Dictyoptera | Roaches and Mantids | 6,000 |
| Isoptera | Termites | 1,900 |
| Zoraptera | Angel Wings | 22 |
| Psocoptera | Book and Bark Lice | 2,000 |
| Mallophaga | Biting Lice | 2,800 |
| Siphunculata | Sucking Lice | 300 |
| Hemiptera | True Bugs, Aphids, Cicadas | 100,000 |
| Thysanoptera | Thrips | 500 | depending on their degree of relatedness.

## Directions:

With your group, choose an insect order to research. Then design a presentation (multimedia and oral presentation with drawings, maps, models, and/or spreadsheets and charts) that includes the following information:

- Basic anatomy (show what distinguishes the selected order from the other orders)
- Life cycle
- Habitats (show the extremes)
- Global presence
- Adaptive and defensive structures and behaviors
- Where the insects exist in the food chain/web, and their role in the environment
- Pictures or drawings of examples from the selected order-most extreme, most common, most rare-you decide
- Local species of the insects in the selected order
- harmful and beneficial species in the selected order
- Surprise us with something unique about the selected order!

