



Pathfinder's Name

Insects

1. Do one of the following:
- a. Mount a collection of 20 species of insects representing at least six different orders excluding moths or butterflies. (Carelessly mounted specimens will not be acceptable.)
 - (1) Place under each specimen a label showing the locality where caught, the date caught, and the collector's name. Labels should not be larger than 1/4 x 3/4 inches (6 mm x 20 mm).
 - (2) Identify insects with common names and genus or species level on second labels to be mounted below the first.
 - (3) Arrange all specimens neatly in an insect box according to orders and families. Orders should be pinned to the box rather than attached to the individual insect pins.
 - b. Make colored drawings or paintings of 20 species of insects, representing at least six different orders. Drawings or paintings need to be life size or larger, to show the details of small insects, and in natural coloring. Label the drawings with common names and genus or species level names.
 - c. Take color pictures of 20 species of insects, representing at least six different orders. All pictures should be in focus, close-ups and properly labeled, showing where photographed, the date photographed, common names and genus or species level names.

2. What are the distinguishing characteristics of an insect?

3. Name five species of injurious insects and tell how to control them.

- | | |
|----------|----------|
| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 3. _____ | |

Control: _____

❑ 4. Name five species of useful insects.

1. _____ 4. _____

2. _____ 5. _____

3. _____

Control: _____

❑ 5. Tell two Bible stories in which insects played an important part.

1. _____

2. _____

Insects, Advanced

- 1. Have the Insects Honor.
- 2. Do one of the following:
 - a. Add to your collection 50 species of insects representing at least ten different orders. Labels must include collector's name, date, locality, order, family, and genus or species level name. (Carelessly mounted or broken specimens are not acceptable.)
 - b. Add to your colored drawings or paintings 50 species of insects, representing at least ten different orders. Drawings or paintings need to be life size or larger, to show the details of small insects, and in natural coloring. Label drawings with date, order, family, and genus or species level name.
 - c. Add to your colored pictures 50 species of insects, representing at least ten different orders. All pictures are to be infocuse, close-ups and properly labeled, showing where photographed, the date photographed, and order, family , and genus or species level name.
- 3. How do the special structures and habits of insects fit them so admirably for life?

- 4. Explain the life cycle of four insects in four different families.

1. _____

2. _____

3. _____

4. _____

5. Name two kinds of social insects. How do they differ from nonsocial insects?
1. _____ 2. _____
Social _____
Nonsocial _____

6. Name at least four insects that carry disease to man. Name at least one disease carried by each.

Insects	2 Disease
1. _____	_____ / _____
2. _____	_____ / _____
3. _____	_____ / _____
4. _____	_____ / _____

7. Make one of the following:
a. Aerial net
b. Sweeping net
c. Aquatic net

8. Construct and use a trap for night-flying insects.

9. Do one of the following:
a. Identify from pictures or from live insects one belonging in each of the following:
(1) Aquatic
(2) Leaf mining
(3) Leaf rolling
(4) Wood boring
(5) Paper eating
(6) Parasites on the body of bird or mammal.

- b. Describe the castes of termites and honey bees.

Termites _____

Honey Bees _____

- c. Compare the degree of intelligence exhibited by a grasshopper or a beetle, and an ant, bee, or wasp.

Grasshopper _____

Beetle _____

Ant, Bee or Wasp _____

Date completed _____

Instructor's Signature _____