

1a. The organism has 6 or more legs.	Go to 2
1b. The organism has less than 6 legs.	Go to 15
2a. The organism has wings.	Go to 3
2b. The organism does not have wings.	Go to 12
3a. The organism has a shiny black body with white spots.	Coleoptera (order)
3b. The organism does not have a shiny black body with white spots.	Go to 4
4a. The organism has wings that are orange with a thick black border.	Lepidoptera (order)
4b. The organism does not have wings that are orange with a thick black border.	Go to 5
5a. 2 pairs of wings point outward and away from the body.	Odonata (order)
5b. 2 pairs of wings do not point outward and away from the body.	Go to 6
6a. Antennae are easily observed.	Go to 7
6b. Antennae are not easily observed.	Homoptera (order)
7a. Front legs are bent together.	Mantodea (order)
7b. Front legs are not bent together.	Go to 8
8a. Spines/spikes are visible on 1 or more leg pairs.	Go to 9
8b. There are no spines visible on any leg pairs.	Go to 11
9a. Body hair is visible.	Hymenoptera (order)
9b. Body hair is not visible.	Go to 10
10a. The organism is approximately 2 centimeters in length.	Orthoptera (order)
10b. The organism is approximately 3 centimeters in length.	Blatteria (order)
11a. The body resembles a stick.	Phasmatodea (order)
11b. The body does not resemble a stick.	Hemiptera (order)
12a. The organism has less than 12 legs	Go to 13
12b. The organism has more than 12 legs.	Chilopoda (class)
13a. The organism has a stinger.	Scorpiones (order)
13b. The organism does not have a stinger.	Go to 14
14a. The organism has claws.	Malacostra (class)
14b. The organism does not have claws.	Arachnida (class)
15a. The organism has feathers or hair.	Go to 16
15b. The organism does not have feathers or hair.	Go to 18
16a. The organism has a beak.	Aves (class)
16b. The organism does not have a beak.	Go to 17
17a. The organism has wings.	Mammalia (class)
17b. The organism does not have wings.	Rodentia (order)
18a. The organism has a fin.	Go to 19
18b. The organism does not have a fin.	Go to 20
19a. The organism is orange and has a pointy back fin.	Osteichthyes (class)
19b. The organism has vertical black stripes.	Cyprinidae (family)
20a. The organism has a shell.	Reptilia (class)
20b. The organism does not have a shell.	Go to 21
21a. The organism has tentacles.	Mollusca (phylum)
21b. The organism does not have tentacles.	Go to 22
22a. The organism has webbed hind feet.	Amphibia (class)
22b. The organism does not have visible feet.	Go to 23
23a. The organism has scales and is longer than 7 cm.	Reptilia (class)
23b. The organism does not have scales and is less than 7cm.	Annelida (phylum)

Learning Target: Use a dichotomous key to determine the identity of an organism.
I.F. Standards: Appendix A Lab Skills