

Arthropod ID slideshow







Arthropod ID

What kind of food is available to foliage gleaning birds?

Learn how to identify common foliage arthropods to ORDER.

E.g., caterpillars vs beetles vs flies vs spiders, etc.

Beetles

Look for the straight line where the wing casings meet!





Ladybird beetle larva





True Bugs

Look for the "X" on the back formed by overlapping wings!

And sometimes pointy "shoulders"





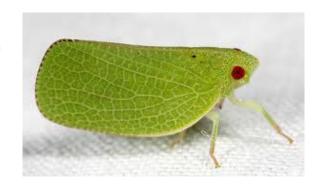


Nymphs don't have wings yet, so won't show the "X"



Leafhoppers, Planthoppers, Cicadas

Usually a wide head relative to body. Hoppers have wings folded tentlike over back and hop!









Aphids and Psyllids

Yellowish, orangish, greenish, or whitish in color.

Usually <5 mm and often <2 mm.

Aphids have rounded, pointy "butts".

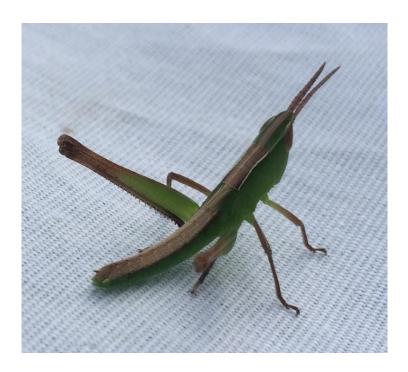


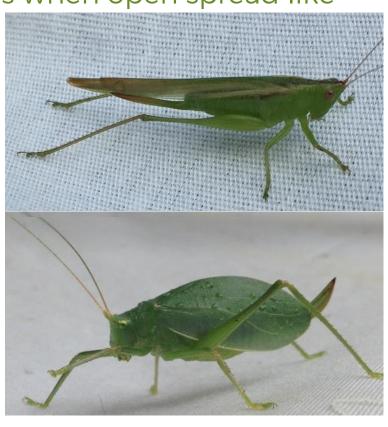


Grasshoppers, Crickets and Katydids

Large hind legs for jumping. Hind wings when open spread like

fans.





Spiders

Abdomen distinct from the rest of the body

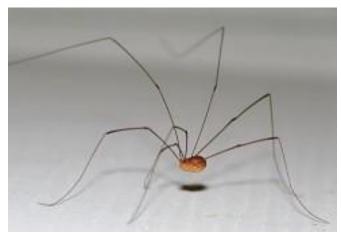
VS.

Daddy longlegs

Head and abdomen appear to be part of a single round "body"

Long legs!





Bees, Wasps

Two pairs of wings (they might be hard to see when folded on back), with hind wings smaller than front wings.

Wasps have a narrow waist.



VS.

Flies

Only 1 pair of wings, often held out to the sides.

Some may mimic bees or wasps in color and shape.





Caterpillars

Also note whether it's

in a silk tent,



May be camouflaged-keep an eye out!





in a leaf roll,



or hairy or spiny



Other Identification Resources

- Bugguide.net
- Insectidentification.org
- Discoverlife.org
- Inaturalist.org
- And take the Caterpillars Count! online arthropod quiz: https://caterpillarscount.unc.edu/arthropodQuiz/

BEES AND WASPS



2 pairs of wings, narrow waist!

CATERPILLARS

Some have good camouflage! Keep an eye out!



DADDY LONGLEGS



The head & abdomen appear to be part of a "body"; 8

APHIDS & PSYLLIDS

most < 5 mm, and often < 2 mm





FLIES Only 1 pair of wings!







single round long legs!

LEAFHOPPERS, PLANTHOPPERS, CICADAS







BUTTERFLIES & MOTHS

The adult forms of our caterpillar friends!





SPIDERS

8 legs; abdomen distinct from rest of body





TRUE BUGS Look for the 'X' on the back formed by overlapping wings!







BEETLES

Look for the straight line where the wing casings meet!





Ladybird beetle larva



GRASSHOPPERS. CRICKETS, **KATYDIDS**







ANTS





10 12 13 15 16 17 20 11 14

Caterpillars Count! ARTHROPOD GUIDE

BEES AND WASPS

Order: Hymenoptera (excluding ants)

Identification: 2 pairs of wings with hind wings smaller than front wings with few cross veins.

Notes: Beware of flies mimicking bees and wasps in

color pattern!

CATERPILLARS

Order: Lepidoptera

Identification: 3 pairs of legs close to the head, 2-5 pairs of stubbier false 'prolegs' toward the rear.

Notes: May be fat like a hornworm or long and skinny like an inchworm, hairy like a gypsy moth caterpillar, or highly camouflaged to resemble

leaves or twigs (or even bird poop!).

APHIDS & PSYLLIDS

Order: Hemiptera **Suborder:** Sternorrhynca

Identification: Green, yellow or whitish in color,

usu. <5 mm and often <2 mm.

Notes: Aphids are common garden pests sucking

plant juices from leaves and stems!

FLIES

Order: Diptera

Identification: Only one pair of wings! Wings are membranous with conspicuous veins.

Notes: Shape and color highly variable; look out for

bee and wasp mimics!

DADDY LONGLEGS

Order: Opiliones

Identification: 8 long legs; The head (cephalothorax) and abdomen appear to be part of a single round "body".

Notes: Also called "harvestmen".

LEAFHOPPERS,

PLANTHOPPERS, CICADAS

Order: Hemiptera

Suborder: Auchenorrhynca

Identification: Usu. a wide head relative to the body. Hoppers have wings folded tentlike over the back and are good...hoppers. Cicadas have large

membranous wings.

BUTTERFLIES & MOTHS

Order: Lepidoptera

Identification: Four large wings covered by scales. Antennae tend to be club-shaped in butterflies and

feathery in moths.

Notes: The adult form of our caterpillar friends!

SPIDERS

Order: Araneae

Identification: 8 legs; The abdomen is distinct from

the rest of the body.

Notes: Spiders are great hunters and many species

do not build a web, like jumping spiders.

TRUE BUGS

Order: Hemiptera Suborder: Heteroptera

Identification: Semi-transparent wings overlap so as to make a triangle or 'X' shape on the back. Often

obvious pointy 'shoulders'.

Notes: Don't say 'bug' unless you mean it!

BEETLES

Order: Coleoptera

Identification: One pair of membranous wings that are only visible in flight covered by a pair of hardened wings that cover the abdomen.

Notes: Look for the straight line down the back of

the abdomen!

GRASSHOPPERS, CRICKETS, KATYDIDS

Order: Orthoptera

Identification: Jumping hind legs; Hind wings, when

open, spread like fans.

Notes: Antennae can be short or long!

ANTS

Order: Hymenoptera **Family:** Formicidae

Identification: Elbowed antennae and a narrow

20

waist.

