

## Insect Orders

"Scientific classification" is the system scientists use to describe, categorize and name living things. They use the classification system to help make sure they don't get confused about what plant or animal they're talking about. From broadest to most specific, the groups in scientific classification are kingdom, phylum, class, order, family, genus, species. Entomologists, or scientists who study insects, commonly focus on insect orders when describing groups of insects. The more common insect orders are listed on this sheet. Those listed in bold contain 90 percent of all insects.

The order names are usually combinations of Latin words. This chart gives the order name, the translation of its Latin name, and common examples of insects in the order. For example, *Coleoptera* is translated as "sheath wing," from the Latin word *Coleos*, which means "sheath" and *ptera*, which means "wing." The common name for members of this order is "beetle."

Order Name	Translation	Common Name or Common Examples
<b>Lepidoptera</b>	scale wing	moths, butterflies and skippers
<b>Diptera</b>	two wings	flies
<b>Orthoptera</b>	straight wing	grasshoppers, crickets, katydids, roaches, mantids and walking sticks
<b>Odonata</b>	toothed	dragonflies and damselflies
<b>Coleoptera</b>	sheath wings	beetles
<b>Hemiptera</b>	half wing	true bugs
<b>Homoptera</b>	same wing	aphids, leafhoppers, cicadas, whiteflies, mealybugs and scale insects
<b>Hymenoptera</b>	membrane wings	bees, wasps, sawflies, ants
Dermaptera	skin wing	earwigs
Ephemeroidea (or Ephemeroptera)	lasting but a day (short-lived wings)	mayflies
Mecoptera	long wings	scorpionflies and hangflies
Neuroptera	nerve wing	lacewings, ant lions and dobsonflies
Trichoptera	hair wing	caddisflies
Plecoptera	pleated wings	stoneflies
Thysanura	bristle tail	silverfish and firebrats
Isoptera	equal wing	termites
Mallophaga	wool eating	chewing lice
Anoplura	unarmed tail	sucking lice
Psocoptera	minute wing	book and bark lice
Thysanoptera	bristle wing	thrips
Collembola	glue peg	springtails
Siphonaptera	tube without wings	fleas

Don't Forget pages 248, 249 in your text!

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