

WHY STUDY INSECTS?

Be a good insect observer
Recent daily and daily

Conserving our insects
Most of insects are lost

Learn more about your insects!
There are insects everywhere you look!

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INSECT BASICS

What is an insect?
Insects belong to a large group of animals called arthropods. They have a tough, or hard outer covering called an exoskeleton and segmented body. Their bodies are divided into three parts: head, thorax, and abdomen. Three pairs of legs and most are winged in adults.

Amazing eyes
Insects have compound eyes. Each eye is made up of many small units called ommatidia. This arrangement allows insects to see in a wide range of directions at once.

Amazing antennae
Antennae are used for sensing and feeling. They can detect touch, taste, smell, and sound. Some insects use antennae to find food or mates.

Amazing mouthparts
Insects have different mouthparts for different jobs. Some use them to chew, some to suck, and some to pierce. For example, a grasshopper has chewing mouthparts, a fly has sponging mouthparts, and a mosquito has piercing-sucking mouthparts.

Amazing wings
Wings allow insects to fly. They are made of a thin, transparent material called chitin. The arrangement of veins in the wings determines how they fly.

Amazing reproduction
Insects have different ways of reproducing. Some lay eggs, some lay larvae, and some lay pupae. Some insects have a life cycle that includes a stage called metamorphosis.

Amazing senses
Insects have many different senses. They can see, hear, taste, smell, and feel. Some insects can even sense vibrations in the ground.

Amazing survival
Insects have many different ways of surviving. Some can fly, some can crawl, and some can burrow. Some insects can even survive in extreme environments.

FASCINATING INSECTS OF SINGAPORE

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Order Coleoptera (beetles)

Leafhoppers are insects in the order Dictyoptera. They are known for their ability to jump. They have long, powerful hind legs that allow them to leap great distances. They are often found on leaves and grasses.

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Order Lepidoptera (butterflies and moths)

Order Odonata (dragonflies and damselflies)
These insects are known for their ability to fly. They have long, powerful wings that allow them to fly great distances. They are often found near water.

Order Neuroptera (lacewings, antlions)
These insects are known for their ability to fly. They have long, powerful wings that allow them to fly great distances. They are often found near water.

Order Dermaptera (earwigs)
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Order Homoptera (cicadas, leafhoppers, aphids)

Order Hemiptera (true bugs)
These insects are known for their ability to fly. They have long, powerful wings that allow them to fly great distances. They are often found near water.

Order Orthoptera (grasshoppers, crickets, katydids)
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Order Phasmatodea (stick insects)
These insects are known for their ability to fly. They have long, powerful wings that allow them to fly great distances. They are often found near water.

Order Hymenoptera (bees, wasps, ants)

Order Diptera (flies, mosquitoes)
These insects are known for their ability to fly. They have long, powerful wings that allow them to fly great distances. They are often found near water.

Order Isoptera (termites)
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