# What Do You Know About Beetles?

1.	Beetles are probably the oldest insect pollinators.	Yes or No
2.	Beetles visit flowers mainly for pollen, not nectar.	Yes or No
3.	Beetles prefer white/dull white or greenish flowers.	Yes or No
4.	Beetles find food mainly by smell.	Yes or No
5.	Beetle-pollinated plants evolved to have thicker flowers and leaves.	Yes or No
6.	Beetles make up about 25% of all known species of animals on the earth.	Yes or No
7.	Unlike pollen baskets on honey bees, beetles lack special	Yes or No

structures for transferring pollen.



Longhorned Flower Beetle



Who said beetles aren't cute?



Round-necked Longhorned Beetle

# 1. YES: Beetles are probably the oldest insect pollinators.

They were abundant when dinosaurs roamed the earth and helped shape insectplant pollinator relationships. Beetles began pollinating flowers about 150 million years ago. Bees are latecomers—they didn't appear until about 50 million years ago.

#### 2. YES: Beetles visit flowers mainly for pollen, not nectar.

Beetles come to bulk up on pollen which is much richer in protein and fat than nectar which is mainly sugar (25-75%), amino acids and lipids.

#### 3. YES: Beetles prefer white/dull white or greenish flowers.

While they prefer these colours, they go where the food is—such as bright yellow dandelions.

## 4. YES: Beetles find food mainly by smell.

Beetles can see colours but they depend mainly on smell to find food. Some flowers they visit have no smell but many are strongly fruity, spicy or fetid.

## 5. YES: Beetle-pollinated plants evolved to have thicker flowers and leaves.

Beetles can cause a lot of damage because of their weight and their feeding habits they're often called *mess and soil* pollinators for this reason. While they're gobbling pollen they may dine on flower petals and other plant tissues. They also poop on the flowers. Obviously not house-broken.

6. **YES: Beetles make up about 25% of all known species of animals on the earth.** There are more species of beetles than any other known group of animals. Beetles make up about 40% of all known insects.



# 7.YES: Unlike pollen baskets on honey bees, beetles lack special structures for transferring pollen.

Flower-pollinating beetles, like Nuttall's Checkered Beetle, have hairy bodies. Pollen grains stick to the hairs and are carried to the next flower the beetle visits.

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