Help the bee find the pollen in the flower.

Ask MAXINE!

Question: It seems like most pollinators are pretty small. I would like to know what the smallest pollinator is and what the largest pollinator is.

Maxine worked for NACD for 47 years. That's why we always ask Maxine.

2 mm

Answer: One of the smallest pollinators is Perdita minima. It is a tiny bee found in the southwestern United States. This bee is less than two

millimeters long! It eats the nectar and pollen of wildflowers. It likes to build its nest in sandy desert soils. One of

Perdita Minima on a Carpenter bee's head!

the largest pollinators is the black and white ruffed lemur. On the island of Madagascar, it is the main pollinator of the Traveler's Palm Tree. The flowers on these trees have very tough

leaves around them. This lemur is the only animal with the strength to crack the leaves and get to the pollen in the flowers!

Special thanks to the NACD S&E Committee and reviewers. NACD stewardship@nacdnet.org Content Writer/Researcher: Teresa D. Southerland Booklet designed by Willow Marketing, Indianapolis, IN Visit: www.conservationlearn.org for the educators guide, additional worksheets and resources Visit: http://www.pollinator.org for additional resources Booklet designed for use with Grades 2-3 © NACD 2019 www.nacdnet.org





Pg. 6: Pollinators are Heroes medicines, plants, pollinate, roots, soil.

pollinator eats insects...

eating strawberry.

POLLINATOR

PARTNERSHIP

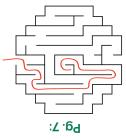
bg. 5: breathe, dairy, flowering, foods, healthy,

- This pollinator likes to eat the petals..., Bat - This Butterfly - This pollinator likes wildflowers..., Beetle Pg. 2: Honey bee – This pollinator has lots of little hairs

#2 pollen on honeybee, #3 strawberry plant, #4 child ustrawer Key: Pg. 1: #1 honeybee on strawberry flower,



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A honeybee is a **pollinator**. **Pollinators** visit flowers to find food. While the **pollinator** is eating, **pollen** from the flower may stick to its body. As the **pollinator** moves from flower to flower, the **pollen** it is carrying also gets moved from flower to flower.

- JII 19

Pollen looks like tiny grains.

> Plants use **pollen** from other plants to make seeds and fruit - like strawberries!

What do Honeybees have

to do with Strawberries?

A lot of the good food we eat comes from plants that have been **pollinated**.

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1 | © NACD www.nacdnet.org 2019

A pollinator is an animal that carries pollen on its body from one flower to another. Pollinators visit flowers to drink nectar or eat pollen. Some examples of pollinators are: birds, bees, beetles and bats.

> Pollinators help pollinate more than 1,200 crops. That means that 1 out of every 3 bites of food you eat depends upon pollinators!

Draw lines to match the pollinator with the description of how it collects pollen.

Beetle

Honey Bee

Butterflv

Bat

22120

This pollinator likes wildflowers. It picks up small amounts of pollen as it looks for nectar. It has long skinny legs and picks flat shaped flowers that help give it a landing pad. **Pollinator Point:** This pollinator tastes with its feet!

This pollinator eats insects, flower parts and pollen at night. It gets pollen on its face while eating. **Pollinator Point:** This pollinator migrates over a thousand miles every spring!

This pollinator likes to eat the petals, pollen and nectar found in flowers with a strong smell. Pollen falls onto its body as it eats. **Pollinator Point:** These pollinators have been nicknamed the "mess and soil" pollinators!

This pollinator has lots of little hairs on its body. Pollen sticks to the hairs. It moves the pollen from the hairs to a pollen basket on its hind legs. **Pollinator Point**: Even the eyes of these pollinators have hairs!

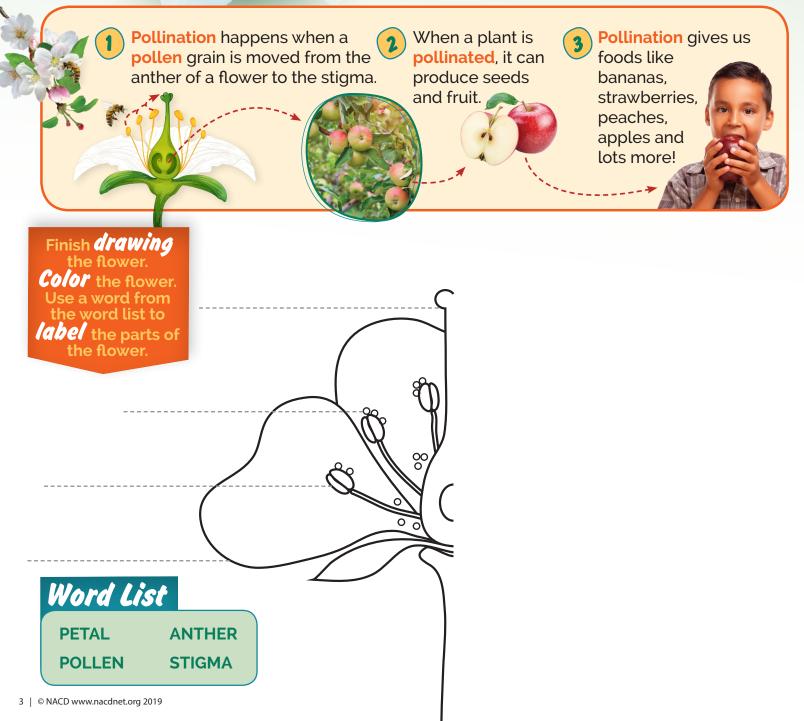




Pollen is a very small grain, and it is sticky.

Pollen can be found on the male part of a flower. The male part of the flower is the *anther*.

The female part of the flower is the *stigma*.



Hummingbirds are pollinators. They are called hummingbirds because when they fly, their wings often make a humming sound. Their favorite flowers are red.



These birds have long slender bills that they stick into flowers to drink nectar. As they stick their bills deep into a flower, **pollen** is sprinkled onto their faces and backs.

Many hummingbirds weigh about the same as a penny! Since hummingbirds are so tiny, they have to eat many times each day. You can help! You can make a hummingbird feeder for your yard or patio.

You can find out how to make this recycled hummingbird feeder at:

http://www.fs.fed. us/wildflowers/kids/ activities/documents/

RecycledPlasticFeeders.pdf

You will also find a recipe for making nectar to fill your feeder with.

We would like to see the feeder you make! Send a picture to:

stewardship@nacdnet.org

Circle any of the pollinators below that you have seen in your neighborhood.





The number of pollinators on planet Earth is getting smaller every year!

Remember, we need pollinators for food, air and many other things we use every day. There is good news - there are many ways YOU can help pollinators.

Here are some things YOU can do to help pollinators:

Provide a home for **Provide** a

Put a bird house or bat house in your yard. You can also put a bee block in a remote area of your yard. A bee block is a

piece of wood with tunnels drilled in it. Another good home for some bees and beetles is a dead tree trunk.





Feed the pollinators.

Plant a garden in your yard. Put pots of flowers on your porch, patio or deck. Be sure to plant native flowers. Native flowers will attract the pollinators that live in your area.

Give the pollinators a drink of water. Pollinators need water like we do. Keep

clean water like we d clean water in a birdbath. You can also set out a dish of water with some small stones in it. The pollinators use the stones for a perch while they are drinking.

Look at the picture clues. Write the first letter of each word in the puzzle.

