



LONG LIVE THE BEES

Honey Bee Health



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LESSON GUIDE: HONEY BEE HEALTH

GRADE LEVEL: ELEMENTARY

Materials Needed:

- Crayons, and lots of orange crayons, for class
- Scissors for class
- Glue for class
- Printable booklet, printed for each student
- Printable cards, printed and cut
- One book, depending on grade level
 - Grade level: PreK-2 The Bee Man
 - Grade level: 2-4 What If There Were No Bees?
 - Grade level: 5 National Geographic Bees
- Snack: cut-up apples and carrots
- Snack: Nature Nate's Raw & Unfiltered honey bottle (squeeze onto each plate)
- Nature Nate's Honey Packets for each student

Objective:

- Students learn what nectar, honey and pollen is.
- Students learn the role of the honey bee in pollinating flowers and plants.
- Students understand the job of a beekeeper.
- Students learn how, where, and why honey bees thrive.
- Students learn the basic anatomy of a honey bee.
- Students become familiar with a U.S. map, states, and borders, and that climate is different in different areas of the country.

WHAT IS A HONEY BEE?

Materials Needed:

Hold up printable booklet and show cover, or show on projector. Do not hand out activities yet.

Talking Point:

What is a honey bee and why do we need them?

They're are insects.

They collect nectar and pollen.

They make honey.

They are pollinators.

They live in colonies.

They're good for the earth!

They sting when they're angry.



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POLLINATION: WHAT IS IT AND HOW DOES IT WORK?

Material Needed:

Snacks, book

Teacher Talking Point:

Pollination: What is it and why do we need it?

Bees fly from flower to flower collecting nectar to take back to the hive. During their stop at one flower, they accidentally move the pollen from one part of the flower to another part. It gets stuck to their bodies and rubs off as they move around the plant. This happy accident is called pollination, and it is what plants need to grow.

Without pollinators like honey bees, most of our foods would not grow.

[Hand out snacks to enjoy while you read to them: apples and carrots cut up with honey to dip in.
Disclaimer: do not feed honey to babies under the age of one]

Bees all played a large role in making these foods you're eating now. Without them, we wouldn't have these snacks.

Read book:

Grade level: PreK-2 The Bee Man

Grade level: 2-4 What If There Were No Bees?

Grade level: 5 National Geographic Bees

Hand out printable booklets and ask class to turn to page 2.

HELP A HONEY BEE

Materials Needed:

Printable booklet, page 2 - worksheet

Writing utensil for each student

Talking Point Part 1:

Circle which field you think is better for honey bee health.

What we might see as weeds actually give honey bees the nectar they need to make honey with. Areas that don't get mowed often are great for honey bee health. Trees that produce flowers are too!

Did you know that fruit trees produce flowers before the fruit forms? These flowers must be pollinated by a honey bee to grow the fruit!



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Talking Point Part 2:

Read through instructions of worksheet with them.

Did you know? Bees see colors different than us. They see blue, violet, purple and white flowers as bright and vibrant. These will attract them!

And they don't see orange and red. These colors just look black to them.

THE PARTS OF A HONEY BEE

Materials Needed:

Printable booklet, page 3 (in color) – worksheet

Writing utensil for each student

Talking Point:

Can you label the parts of a honey bee?

THE PARTS OF A BEE HIVE

Materials Needed:

Printable booklet, page 4 (in color)

Talking Point:

[Image 1] This is a beekeeper's beehive. These are set in fields so bees can come and go.

[Image 2] This is the inside of the beehive. This is a frame. Frames can be pulled out like dresser drawers. See the smoke? Using a smoker keeps the bees calm.

[Image 3] Bees make honey from nectar from flowers and store it in the honey cells in the frames. Beekeepers must wear clothes to cover every part of their body so the bees can't sting them.

BEEES THRIVE IN WARM CLIMATES

Materials Needed:

Printable worksheet, pages 5 and 6 – color and cut/glue activity

Scissors

Glue

Crayons: Blue, violet, purple, white



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Talking Point:

What US states have warm temperatures often? Bees are healthy and happy in these states! Color them with a bee’s favorite colors and then cut out the bees and glue them onto the states.

THE LIFE OF A BEEKEEPER

Materials Needed:

- Printable booklet, page 7 – cut/glue activity
- Scissors
- Glue

Talking Point:

Cut out each part of the beekeeper suit and his tools. Glue them where they should go. Be sure to cover his whole body so he doesn’t get stung! Then read the questions and circle the answer you prefer.

Questions to read out loud to smaller children:

Do you like working outside in warm temperatures?	Yes	No
Are you brave (and not allergic to bees)?	Yes	No
Could you be gentle with the bees and make smart decisions?	Yes	No
Do you think it would be fun to help plants and trees grow?	Yes	No

Being a professional beekeeper can be a real job! We need people who will care about honey bee health to do this job right.

Writing Assignment or Class Discussion:

Who thinks they would like to be a beekeeper someday? Why or why not?

RAW AND UNFILTERED HONEY

Materials Needed:

- Printable booklet, page 9 – drawing sheet
- Orange crayons or markers
- Bottle of honey to show to class

Talking Point:

Whoever can draw the best honey bottle gets to take home some honey. Make it look just like this, and here are plenty of orange crayons [hold up Nature Nate’s honey bottle].

Why should I eat raw and unfiltered honey?
It’s sweet and delicious, and I can eat it instead of sugar and candy!



It contains vitamins, enzymes, and antioxidants my body needs.
It makes veggies and pancakes even better.
It's an all-natural food with nothing added in.

WHAT DID WE LEARN?

Read below while students are drawing.

Materials Needed:

Nature Nate's Honey Packets

Talking Point:

What are some things that make honey bees healthy and have a long life?

- A. Plenty of flowering plants to get nectar from
- B. Warm weather
- C. Responsible beekeeping
- D. Lots of rain

Talking Point:

And why do we need bees?

- E. They are pollinators.
- F. They give us most of our foods.
- G. They give us honey.

Hand out honey packets for kids to take home to mom. Give extra to the student who drew the best honey bottle.

Teacher:

We value you! Take pics of your student's drawings and post them on Instagram with #TeachersChooseReal. You may be randomly selected to win a gift card for teaching materials.

For this free lesson plan and printable booklet for students, please visit naturenates.com.



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