

BUZZING A HIVE

TEACHER'S GUIDE



GRADES K-3



Lesson 1: The Honeybee

What You Need

For a group of 32, including yourself:

- Construction paper (9" x 12" size) for paper bee:
 - ___ 5 sheets of yellow
 - ___ 9 sheets of white
 - ___ 2 sheets of black
- white paste or glue
- newspaper
- tray for demonstration
- blue paper for mural (about 18' x 4', see pages 70-71 for more details)
- 3 copies of "The Honeybee" poster (master included, page 13)

For each child and yourself:

- 1 copy of "The Honeybee" poster
- 1 pair of scissors
- 1 pencil

Activity for a Learning Center

What You Need

For a group of six students:

- 6 dead bees (See page 69 for information on obtaining dead bees.)
- 6 cotton balls
- 1 egg carton
- 3 copies of "The Honeybee" poster
- 6 magnifying glasses (optional)

Lesson 2: Bees and Flowers, Pollen and Nectar

Session 1: Pollen

What You Need

For a group of 32, including yourself:

- colored construction paper (9" x 12") for flowers and grass:
 - ___ 32 sheets of white and/or orange
 - ___ 20 sheets of green
 - ___ 1 sheet of yellow
- white paste or glue
- "Bee Covered with Pollen" poster (master included, page 22)

- "Bee's Pollen Baskets" poster (master included, page 23)
- paper bees
- blue paper for mural
- 1 tray
- 1 trash can
- 4 or more containers for paper pollen and stamens, and for real flowers
- newspaper

For each child and yourself:

- 1 flower with pollen (see #1 in Getting Ready on this page)
- 1 cotton ball
- 1 pair of scissors
- 1 pencil

Session 2: Nectar

What You Need

For a group of 32, including yourself:

- "Bee's Proboscis" poster (master included, page 24)
- 4 trays
- 1 trash can
- 1 bottle or can of fruit juice, 64 oz. size
- 1 jar of honey, 8 oz. size
- 1 sheet of waxed paper (12" x 24")
- sponges for cleanup

For each child and yourself:

- 1 paper cup, 3 oz. size or larger
- 1 drinking straw cut in half to a length of about 4"
- 1 damp paper towel

Lesson 3: Building A Beehive

What You Need

For a group of 32, including yourself:

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| <ul style="list-style-type: none"> <input type="checkbox"/> yellow, brown, or white butcher paper, approximately 8' x 3½' for a large hive <input type="checkbox"/> 2 sheets of yellow construction paper (9" x 12" size) for adding wax scales <input type="checkbox"/> 1 sheet of waxed paper (12" x 12") <input type="checkbox"/> 1 large pair of scissors for cutting out the hive | <ul style="list-style-type: none"> <input type="checkbox"/> 1 chunk of wax <input type="checkbox"/> other wax objects, such as birthday candles, crayons, and lipstick <input type="checkbox"/> paper demonstration bee <input type="checkbox"/> demonstration tray <input type="checkbox"/> newspaper <input type="checkbox"/> white paste or glue <input type="checkbox"/> mural with bees and flowers <input type="checkbox"/> "Beehives" poster (master included, page 33) |
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- "Inside the Hive" poster (master included, page 34)
- "Bee with Wax Scales" poster (master included, page 35)
- "Bees Hanging in Chains" poster (master included, page 36)
- several empty pieces of honeycomb (optional)

For each child and yourself:

- 1 paper egg carton, preferably yellow
- 1 pair of scissors
- 1 pencil

Lesson 4: What's In A Hive?

Session 1: Exploring Honeycomb

What You Need

For a group of 32, including yourself:

- 1 8-oz. package of honey in the comb (available in many health food stores)
- 1 sheet of waxed paper (12" x 24")
- 1 paper plate
- 1 trash can
- 2 or 3 sponges
- 3 trays

For each child and yourself:

- 1 damp paper towel

Session 2: The Queen Bee and Her Babies

What You Need

For a group of 32, including yourself:

- construction paper (9" x 12") for queen bee:
 - ¼ sheet of white, 6" x 4½"
 - ¼ sheet of yellow, 3" x 9"
 - ¼ sheet of black, 2¼" x 3"
- construction paper (9" x 12") for pollen, honey, eggs, larvae, and pupae:
 - 2 sheets of yellow
 - 2 sheets of brown
 - 2 sheets of white
- "The Queen Bee and Her Eggs" poster (master included, page 50)
- "The Larvae" poster (master included, page 51)
- "The Pupae" poster (master included, page 52)

- demonstration bee
- paper hive with egg carton cells inside
- white paste or glue
- newspaper
- 3 trays
- 34 3-oz. paper cups
- 1 8-oz. jar of honey (same jar used in Lesson 2)
- 4 graham crackers
- 1 small bag (plastic or paper)
- 1 sponge
- 1 trash can

For each child and yourself:

- 1 pencil
- 1 pair of scissors
- 1 drinking straw cut in half to a length of about 4"

Session 3: Young Bees Drama

What You Need

- mural with flowers
- paper hive with egg carton cells
- all the paper bees, including the queen

Lesson 5: Bee Enemies

What You Need

For a group of 32, including yourself:

- mural with bees, flowers, and hive
- peppermint extract or any familiar scent
- newspaper
- white glue or paste
- 1 plastic bag for cotton balls
- 1 demonstration tray
- Bee Enemies* story, page 57

For each child and yourself:

- 1 white crayon or piece of chalk
- 1 pair of scissors
- 1 sheet of 9" x 12" black construction paper
- 1 cotton ball

Optional:

- a different familiar scent
- extra cotton balls
- 1 plastic bag for cotton balls

Lesson 6: Bee School, Beelines, and Bee Dances

What You Need

For a group of 32, including yourself:

- 9" x 6" piece of yellow construction paper for pollen
- white glue or paste
- demonstration bee
- 1 bunch of real flowers
- 1 demonstration tray
- newspaper
- mural with bees, flowers, beehive, and skunk
- "Bee Covered with Pollen" poster (master included, page 22)
- "Bee's Pollen Baskets" poster (master included, page 23)
- 1 piece of chalk (optional)