

# **Busy Buzzing Bees**

Integration Cards, or *iCards*, may be used as enrichment activities by the teacher, teacher's aide or volunteer, in any sequence, to integrate Language & Literacy, Math and Creative Arts into the science content presented in this unit.

#### Language & Literacy

- L1. Fingerplay
- L2. Sing Along Song
- L3. Picture Walk
- L4. Read Aloud

#### Math

- M1. Flower Lotto
- M2. Hexagon Hunt
- M3. Sorting Tastes
- M4. Voting Scents

#### **Creative Arts**

- C1. Fingerprint Bee Cards
- C2. Hexagon Home
- C3. Honeybee Headbands
- C4. My Bee Dance



- Children should be standing, use a large open space for body movements.
- 2. Introduce the fingerplay words and hand motions one line at a time. Tell the children: **Say it after me.**
- 3. Use rhythm and hand motions to engage the children.
- 4. As the children recite the fingerplay chant, ask them to use soft voices, then loud voices.

Language & Literacy *i*Card **Fingerplay** 

#### The Bees in the Hive

Sung to tune of "The Wheels on the Bus"

The bees in the flowers go buzz, buzz, buzz Buzz, buzz, buzz, buzz, buzz, buzz The bees in the flowers go buzz, buzz, buzz Out in the field.

The proboscis on the bee helps sip the nectar, Sip the nectar, sip the nectar. The proboscis on the bee helps sip the nectar, And drink it all up.

The antennas on the bee smell, smell, smell Smell, smell, smell, smell, smell, smell. The antennas on the bee smell, smell, smell To find the right beehive.

When the bee finds the flower it Waggles, waggles, waggles, Waggles, waggles, waggles, Waggles, waggles, waggles. When the bee finds the flower it Waggles, waggles, waggles Back in the hive. (Wiggle all five fingers on one hand and move your hand around in small circles.)

(Wiggle your index finger on one hand.)

(Hold index fingers above your forehead.)

(Stand up and wiggle your bottom like a bee doing the waggle dance.)







- 1. Have children stand up to sing this song.
- Introduce the song and motions one line at a time. Tell the children: Sing after me. Do what I do.
- 3. When children know the words, sing the song together.

Honeybee, honeybee, landing on my nose, honeybee, honeybee, now he's on my toes. on my arms, on my legs, on my elbows. honeybee, oh honeybee he lands, and then he goes.

# Language & Literacy *i*Card Sing Along Song

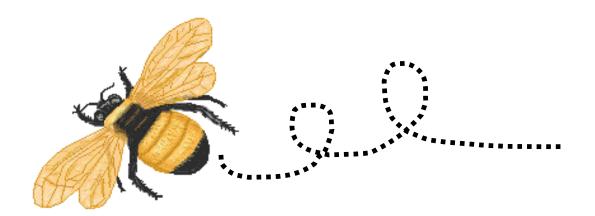
#### Honeybee

Original Author Unknown Sung to the tune of "Jingle Bells"

(Point to your nose)

(Point to your toes) (Pretend to pinch your arm) (Tap your knees)

(Touch the floor and then raise arms)







#### 1. Choose a book.

Select a book from the *Busy Buzzing Bees Picture Walk Books* list. If these books are not available, find another content-related book filled with rich, detailed pictures.

#### 2.Get to know the book.

Read the story to yourself before sharing the book with the children. Notice how the illustrations tell the story.

#### 3. Enjoy reading time!

Make sure everyone is comfortable and able to see the book. If needed, establish rules for good behavior.

### Language & Literacy *i*Card

## **Picture Walk**

Taking a picture walk through a book is one of the earliest stages of reading. It enables children to "read" books by looking at the pictures. Ideal picture walk books have rich illustrations. When a book has too much text to hold children's attention, use it to show just the pictures. Wordless books are also a great choice for Picture Walks.

1. Before conducting the picture walk:

Let the children know you are going to read this book by looking at the pictures.

- Show the cover of the book.
- Read the title, the author's name, and the illustrator's name.
- Ask children to predict what they think the story will be about based on the cover and the title.
- 2. While conducting the picture walk:
  - Slowly go through the book, page by page.
  - Ask a few questions about each picture. For example: When did that happen? What do you think will happen next? Why do they want to do that? Where is this part of the story taking place? Where do you think they are going?
- 3. Share the book again and again. When children like a book, they want to "read" it over and over.
- 4. Leave the book in the science or book area for the children to enjoy.



### ECHOS<sup>®</sup> Busy Buzzing Bees

### Language & Literacy *i*Card

# **Picture Walk Books**

#### Lesson 1: Pollination

Bees by Sue Barraclough

The various types of bees are described in this nonfiction resource. Bees can be different shapes and sizes.

#### Lesson 2: Honey

*Honeybees* (All Aboard Science Reader) by Joyce Milton This book describes the anatomy, behavior, and life cycle of the honeybee, as well as the different kinds of honey that are produced on bee farms.

#### Lesson 3: Scent of a Bee

*Honey in a Hive* by Anne Rockwell This book tells the story of how honeybees gather nectar to make honey.

#### Lesson 4: Bee Dance

*DK Readers: Busy, Buzzy Bee* (Level 1: Beginning to Read) This book has great imagery and a story line about a special busy bee. This book describes the basics of how honey is made and how bees communicate through a dance.





- 1.Choose a book.
- Select a book from the *Busy Buzzing Bees Read Aloud Books* list. If these books are not available, find another content- related book.

#### 2.Get to know the book.

- Read the story to yourself before reading the book to your class.
- Plan ways to change your voice to fit the plot and characters.
- Gather props.

#### 3.Enjoy reading time!

Make sure everyone is comfortable and able to see the book. If needed, establish rules for good behavior.

# Language & Literacy *i*Card **Read Aloud**

When children are read to, they are likely to grow into good readers. As they listen to stories, children hear rich vocabulary and proper language structure, and learn new information about the world. Being read to can enhance imagination, creativity, and curiosity. When selecting a book for a Read Aloud, consider the amount of text and the children's attention span.

- 1. Before reading the story:
  - Show the cover of the book.
  - Read the title, the author's name, and the illustrator's name.
- 2. While reading the story the first time:

Where did the story happen?

- Focus on the flow of the story.
- Read with expression, change your voice for different characters.
- Vary the reading speed: fast for exciting parts, slow for scary or quiet parts.
- 3. After reading the story:
  - Ask a few questions about the book. For example:
     Who would you like to be in the story?
     What would you have done?
     Why did they do that?
    - How would you change the ending?
  - Have the children re-tell the story or act out their favorite part.
- 4. For additional readings:
  - Invite children to ask questions or discuss the story.
  - Encourage children to say words they remember from the story as you read them.
  - Assist children in recognizing the sounds that make up words.
- 5. Leave the book in the science or book area for the children to enjoy.



### **ECHOS**<sup>®</sup> Busy Buzzing Bees

# Language & Literacy *i*Card

# **Read Aloud Books**

#### Lesson 1: Pollination

Bees and Their Hives by Linda Tagliaferro

This book offers simple text and photographs that describe the life of bees and the hives in which they live.

#### Lesson 2: Honey

In the Trees, Honey Bees! by Lori Mortensen

Inside-the-hive views of a wild colony of honeybees offer close-ups of the queen, the cells, and even bee eggs. Simple verse will engage a young child, while sidebars with fascinating information satisfy the somewhat older child.

#### Lesson 3: Scent of a Bee

ECHOS Book: *Bizzy Bee's Adventures* by Ava Goldman Two animal friends set off on an adventure in a flowery garden. Bizzy the bee uses her sense of smell to find her way back home to her special beehive.

#### Lesson 4: Bee Dance

Honeybee and the Robber by Eric Carle

A brave little honeybee saves the day when a big hungry bear attacks the beehive. Ingenious pop-ups and other movable images bring this funny and informative story to vivid life.





- For the Teacher:
- Flower Lotto Board
- Bee Cutouts page
- scissors
- *Flower Lotto Board*, cut into four squares

#### For each child:

- ten Bee Cutouts
- Flower Lotto Board

#### Preparation

- 1. Make one copy of the *Flower Lotto Board* for each child and one for the teacher.
- 2. Copy the *Bee Cutouts* page and cut out ten bees for each child.
- 3. Cut one *Flower Lotto Board* into four squares for teacher use.

### Math *i*Card

## **Flower Lotto**

Children use one-to-one correspondence as they match bees to flowers.

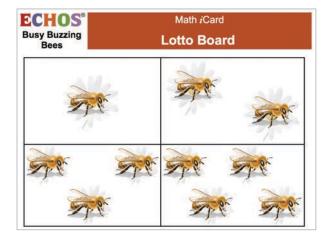
#### Procedure

- 1. Say: Bees love to fly from flower to flower. Today we are going to fly one bee to each flower.
- 2. Give each child a Flower Lotto Board and a set of ten bees.
- 3. Model how to play the game. Hold up a flower card with one, two, three or four flowers. Count the number of flowers on the card and "fly" bees to the matching square on the board.
- 4. Say: **Now it's your turn.** Play the game with the children. Hold up a flower card with one, two, three or four flowers. Help the children count the number of flowers and "fly" one bee to the matching square on the board. Repeat with other cards.







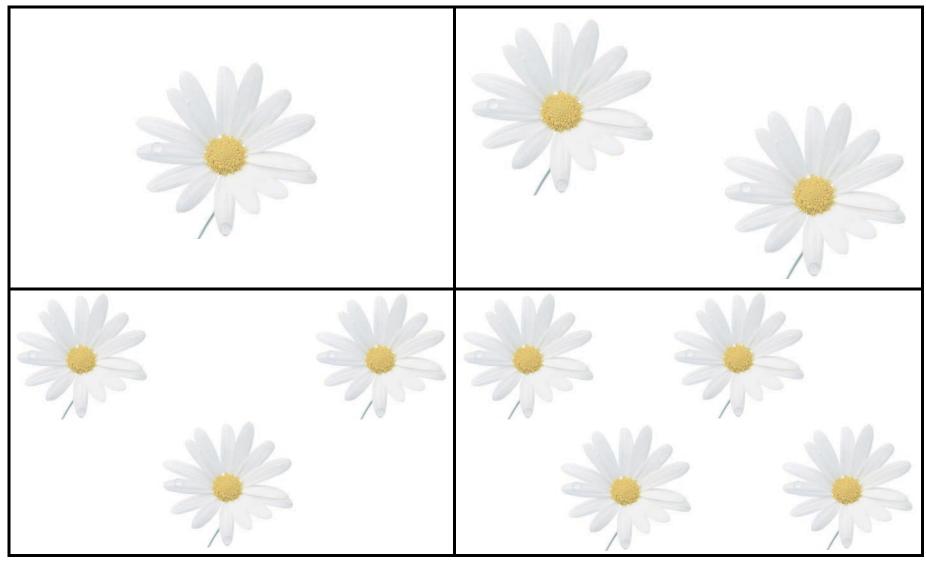






Math *i*Card

### **Lotto Board**

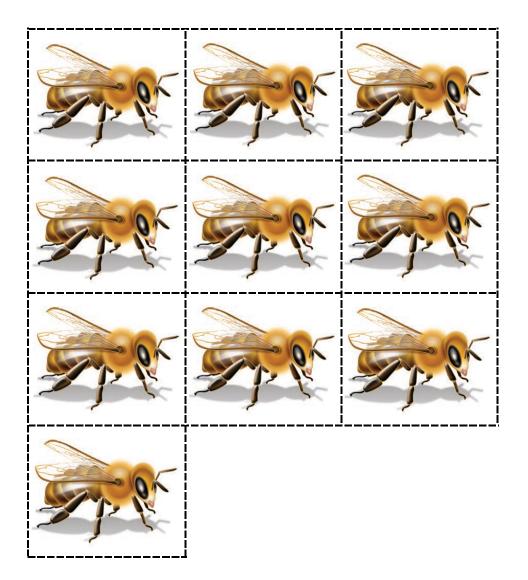






Math *i*Card

# **Bee Cutouts**







- one die
- three sheets of 9" x 12" brown construction paper
- Hexagon Stencil page
- Bee Cutout page
- one permanent marker

#### For each child:

• one Bee Cutout

#### Preparation

- 1. Make one copy of the *Hexagon Stencil* page. Cut it out to make a stencil.
- 2. Use the stencil to trace six hexagons on brown construction paper. Cut out each shape.
- 3. Draw dots on the hexagons and arrange them as in *Figure 1*.
- 4. Make a photocopy of the *Bee Cutout* page.
- 5. Cut out the bees, one per child.

# Math *i*Card Hexagon Hunt

Children match the numbers of dots on a die to the number of dots on a hexagon.

#### Procedure

- 1. Say: Today we are going to have a Hexagon Hunt. How many sides does a hexagon have? Count six sides with the children.
- 2. Model the game. Roll the die. Count the number of dots. Model how to "fly" the bee to the matching hexagon with the same number of dots. Then, "fly" your bee back.
- 3. Distribute one bee to each child. Say: **Now it's your turn.** Give each child a turn to roll the die. Invite the children to count the number of dots. Prompt as needed to help children "fly" the bee to the hexagon with the same number of dots. Then, "fly" the bee back to them.
- 4. Give each child a turn to roll the die and "fly" the bee to the matching hexagon. Help the children find the hexagon with the same number of dots as the die.

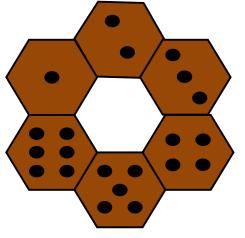
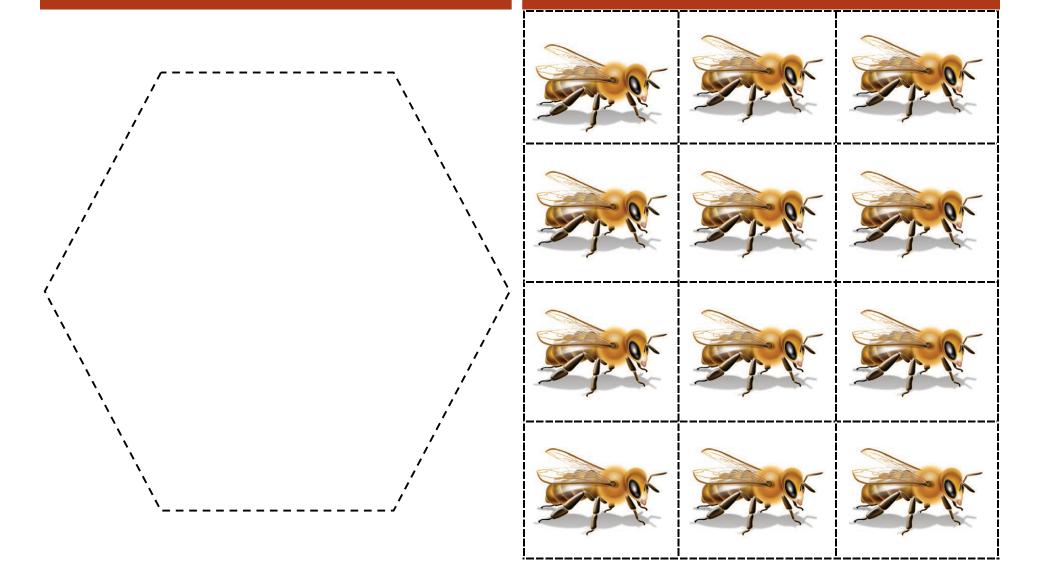


Figure 1



## Math *i*Card Hexagon Stencil

# Math *i*Card **Bee Cutout**







- honey
- grapefruit juice
- salt
- water
- permanent marker
- three 9" x 12" sheets of construction paper
- Taste Cards page

#### For each child:

• three 1¼-oz. cups

#### Preparation

- 1. Using a permanent marker, label each of the three cups for each child with a small number "1", "2", or "3"
- Prepare sample cups: #1 cups: a few drops of honey and water #2 cups: a few drops of grapefruit juice and water #3 cups: a pinch of salt and water
- 3. Copy the *Taste Cards* page. Cut out and paste each picture on a sheet of construction paper.

# Math *i*Card Sorting Tastes

Children sort three different tastes: sweet, sour, and salty.

#### Procedure

- 1. Say: Today we are going to explore three tastes: sweet, sour and salty.
- 2. Invite the children to taste the sample cups, one at a time. Ask: What do you think is in the cup? How does it taste?

Guide the children to one of three answers:

- Cup #1:Honey tastes sweet.Cup #2:Grapefruit juice tastes sour.Cup #3:Salt tastes salty.
- 3. Introduce each taste card: honey for sweet, a grapefruit for sour, and salt for salty. If possible, place a real jar of honey on the honey card, a real grapefruit on the grapefruit card, and a real saltshaker on the salt card.
- 4. Ask the children to place the sample cups on the construction paper that matches the taste. Repeat for all sample cups.
- 5. Discuss results with the children. Count the number of cups in each category.











### Math *i*Card **Taste Cards**







- three herbs and spices For example: basil, chives, cilantro, cinnamon (stick), cloves, dill, ginger, mint, nutmeg, oregano, parsley, rosemary, sage, thyme, or vanilla (use liquid or fresh versions, not powders that can be inhaled by children)
- *Like/Dislike Cutouts* page
- permanent marker
- glue stick
- chart paper or tag board

For each child:

• three 1¼-oz. cups

#### Preparation

- 1. Make one copy of the *Like/Dislike Cutout* page. Cut out each picture.
- 2. Create a chart as in *Figure 1*. Glue the two pictures to the top of the chart paper.
- 3. Place a few bits of each selected herb or spice in a set of three cups for each child.

# Math *i*Card Voting Scents

Children vote on how they feel about different scents.

#### Procedure

- 1. Say: Today you are going to smell some scents and vote on how you feel about them.
- 2. Remind children that we use our noses to smell, but bees use their antennas to smell.
- 3. Give the children one smelling scent cup at a time. Invite them to smell the cup and vote on how they feel about the scent. Tally their votes. Continue with all three scents until everyone has voted.



Thumbs up. I like this scent.



Thumbs down. I don't like this scent.

4. Discuss results. Ask: **Which scent do we like the most?** Count the votes with the children. Write the number in each box.

Herb Scent	8	7	9	L
Scent#1: Vanilla	ш	3	1	1
Scent#2: Ginger				
Scent#3: Mint				





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# Math *i*Card Like/Dislike Cutouts









- black washable finger paint
- crayons
- hand wipes/wet paper towels
- *Honeybee* photograph

#### For each child:

- one index card
- one small paper plate

#### Preparation

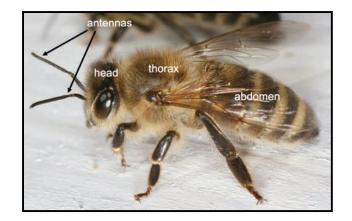
- 1. Pour black, washable finger paint onto each plate.
- 2. Place the *Honeybee* photograph in an area visible to the children.

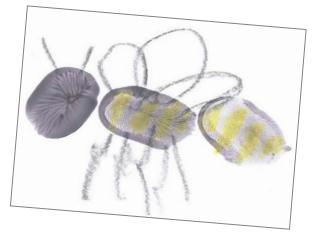
# Creative Arts *i*Card Fingerprint Bee Cards

Children create bee picture cards.

#### Procedure

- 1. Say: Today we are going to use our fingers to create bee cards.
- 2. Give each child an index card and a small plate with a small amount of black finger paint.
- 3. Model how to make a fingerprint bee by using your index finger to make one fingerprint at a time side by side: one to represent the head, one for the thorax and one for the abdomen.
- 4. Assist children in using crayons to add legs, wings and antennas to their fingerprint bee. If needed, refer to the bee diagram to create the fingerprint bee card.
- 5. Provide hand wipes or wet paper towels for the children to clean their fingers following the activity.







### ECHOS® Busy Buzzing Bees

Creative Arts *i*Card Honeybee

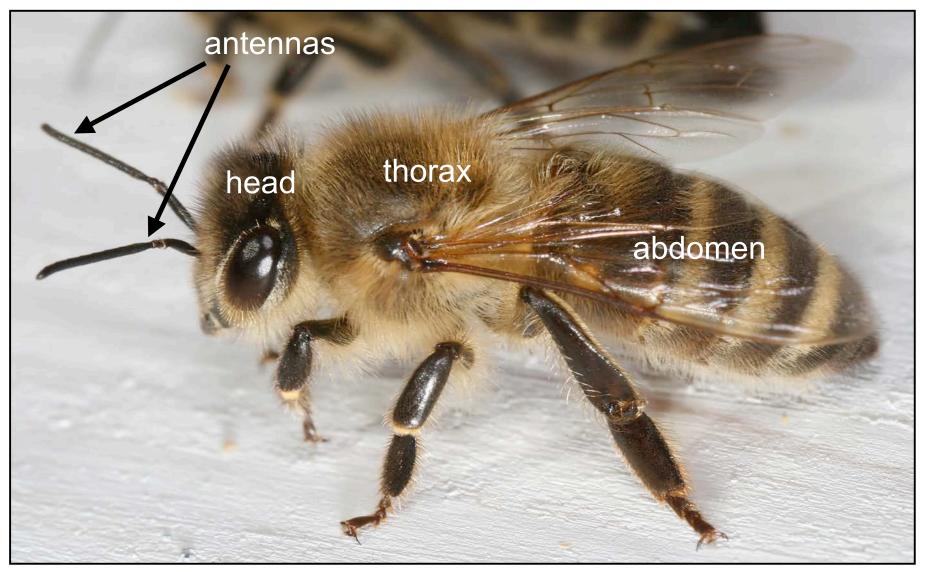


Photo Credit: Richard Bartz, Wikimedia Commons





- *Honeycomb* photograph
- Hexagon Stencil page
- 9" x 12" white, brown or yellow construction paper (or plain white paper)
- scissors
- crayons

#### For each child:

• one hexagon shape

#### Preparation

- 1. Make one copy of the *Hexagon Stencil* page and cut it out to make a hexagon stencil.
- 2. Trace the stencil on the construction paper and cut out one hexagon per child.
- 3. Place the *Honeycomb* photograph in an area visible to the children.

# Creative Arts *i*Card Hexagon Home

Children make a honeycomb model by decorating hexagon cutouts.

#### Procedure

- 1. Say: Today you will each decorate your honeycomb.
- 2. Hold up the *Honeycomb* Photograph. Bees live in beehives, and inside the beehives there is a honeycomb. Honeycombs have many hexagon shapes inside.
- 3. Give each child a hexagon cutout and crayons.
- 4. Assist the children in coloring/decorating the hexagon.
- 5. When the children have finished, write each child's name on their hexagon and place the hexagons together on a wall or bulletin board to form a classroom honeycomb.







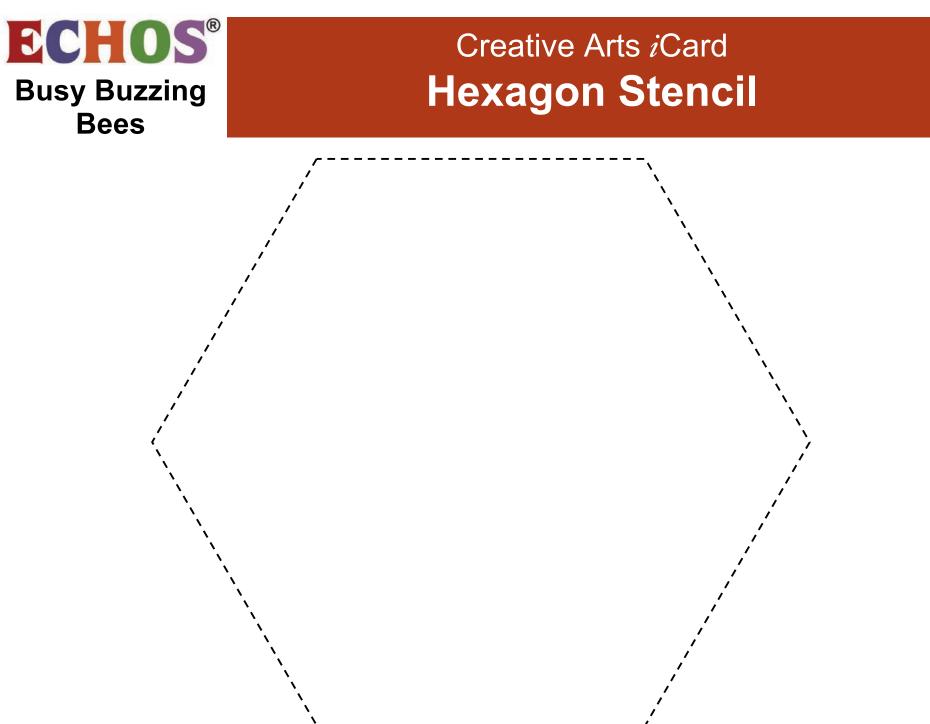


Creative Arts *i*Card Honeycomb



Photo Credit: User Migco, Wikimedia Commons









- tape
- 9" x 12" yellow construction paper
- For each child:
- one black pipe cleaner
- one black crayon
- one 2" x 24" strip of yellow construction paper

#### Preparation

- 1. Cut 2" x 24" strips of yellow paper.
- 2. Create a model honeybee antennas headband to show the children.

# Creative Arts *i*Card Honeybee Headbands

Children create bee antennas headbands using craft materials.

#### Procedure

- 1. Say: **Today we are going to make bee antennas headbands.** Show the children the model honeybee headband.
- 2. Guide children to create headbands:
  - Color black stripes on the strip of yellow construction paper.
  - Fold pipe cleaners in half to create a V shape, then tape them on the yellow strip.
  - Tape together the ends of the strip of paper to make the headband fit each child's head.

**NOTE:** The headband will be large for the children. Wrap the extra paper around each child's head for added strength and to keep the folded pipe cleaners from hurting their foreheads.







#### Materials • ECHOS CD Track #1 "Bee Dance" • CD player

Preparation

Set up the CD player and test the ECHOS CD.

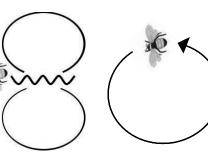
# Creative Arts *i*Card My Bee Dance

Children create their own bee dance.

#### Procedure

- 1. Say: Today we are going to pretend to be bees and create our own dances.
- 2. Say: Bees dance to communicate the location of a flower.
- 3. Play Track #1, *Bee Dance* on the ECHOS CD. Invite children to create their own dance movements.
- 4. If time permits, invite one child to perform his/her dance while the other children try to imitate it.





waggle dance

circle dance

