

## Bee Lesson - KINDERGARTEN

**NGSS Standard** - *Interdependent Relationships in Ecosystems: Animals, Plants and Their Environment*

### Lesson Name: Who's Who in the Hive?

2 30-minute sessions

steps 1-3 session 1, steps 4-5 session 2

Intro using the game app, have students interact as a whole group if using a smart board or in small groups.



1. Buzz into a circle, following the teacher, sitting the Students look at and discuss the apps images and games about bees.

Play or demonstrate mazes that teach roles bees play in the hive.

1. Nurse Bee - She feeds the baby bees
2. Attendant Bee - She cares for the Queen
3. Forager Bee - She flies outside to find food
4. Drone Bee - The only boy bee, He falls in Love with a Queen from another hive
5. Queen - She's the ruler of the hive

2 – Tell students your favorite dance and demonstrate a little of the moves, then have all the students stand dance a little on their with the teacher working with the reluctants. Buzz back to their circle spots.

- Teacher demonstrates and/or shows [video](#) to teach the Waggle Dance.



3. Teacher conveys the interdependent relationship of bees and their hives through app links for story suggestions about bee hive living.
  - Students practice the waggle dance as a whole group ending by buzzing to their art spots to prepare for the diorama project
4. Students make a diorama on a paper plate folded in half, using colored pens and glue to create a bee hive using app diorama instructions.
5. Students buzz back to a circle and describe choices of line, shape and color of bee hive plate. Students point out a pattern noticed in a bee hive.
  - Close by revisiting the Waggle Dance and buzzing on into their next class activity.

#### Materials

1. paper plates
2. colored pencils and pens
3. colored paper with solids and patterns
4. glue (and scissors if your students are ready or practiced)

## VOCABULARY:

- Attendant
- Builder
- diorama
- Drone
- Forager
- form
- hexagon
- nectar
- Nurse
- pattern
- pollen
- Queen

### Learning and Demonstrating Goals

#### *Science connection Standards*

Observations to notice who lives in a bee hive and why, include what bees need to survive

Models to represent hives

Communicate choices for hive design, who lives there and the flight pattern of a forager bee.

#### *Arts connection Standards*

Dance - Learn the Waggle Dance. Make bee movements using beginning, middle and end of an action (for example -prepare to fly, fly and land as a bee) and discuss your choices

Visual Arts – Identify and use line, shape and color to draw a bee hive; use scissors, paper and glue; identify time and places in art (for example - backyards with bee hives, in day light in a modern city); discuss their own art (for example - discuss their choices using line, shape and color in their analysis)

Thank you! Feedback is welcomed. email: [jaynee@geotots.com](mailto:jaynee@geotots.com)