# HoneyBees
## Lesson Plan

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**Grades:** 4  
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### Unit/Topic/Lessons: Honeybees

### Objectives

Student will be able to:
- Learn through experience about the waggle dance.
- Learn about honey bee anatomy

### Correlation to State & National Documents

#### Alabama Course of Study: Science
- **Content:** Grade 4 From Molecules to Organisms: 11 AHSGE/Exit Standards & Eligible

#### National Science Standards:
- 3-5 Life Science: Behavior of organisms

### COS Content Standard

11. Investigate different ways animals receive information through the senses, process that information, and respond to it in different ways (e.g., skunks lifting tails and spraying an odor when threatened, dogs moving ears when reacting to sound, snakes coiling or striking when sensing vibrations).

### Materials/Resources

<table>
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<th>Equipment needed</th>
<th>Instructions</th>
<th>Grouping Strategies (small group, pairs)</th>
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| Have packets of honey (one per student), printed honey bee labeling worksheet, and pens, pencils, or markers to labeling. | Label the Honey Bee  
First, students should work individually to label the honey bee. Next, students should pair up to compare answers. Then go over answers as a class, explaining what each body part does  
Waggle Dance  
Show students a video of the waggle dance, then demonstrate how to do the waggle dance. After, students can enact the waggle dance to find honey packets  
*see activities for more instructions | Have children complete the labeling worksheet on their own. Then pair students into groups of 2-3 students so they can discuss their answers.  
Children will work as a class to decode each students “waggle dance”.

### Assignments

**Class work:**
- Waggle Dance Activity/Anatomy Worksheet

**Guided practice:**
- Guide students through finding honey packets

**Reading:** Text/Articles/Other
- Honeybee resource guide
-https://www.nationalgeographic.com/animals/invertebrates/h/honeybee/  

**Writing:**
- Write one to two paragraphs on the waggle dance

**Homework:** none

### Background/Preparation

Teacher should review information on honey bees.

### Technology Integration:

- PowerPoint:
- Websites: waggle dance video

### Integration with other disciplines:
- Biology, Ecology, Math.

### Remediation Activities:

### Enrichment Activities/Extensions:

Write a one paragraph reflection paper on the waggle dance and honeybee communication

### Special Topics/Schedules

- Testing: ___  
- Pep Rally: ___  
- Media/PR: ___  
- SAC: ___  
- Career Education: ___  
- Character Ed: ___  
- Adopt-A-School: ___  
- Athletics: ___

### Total Duration:

- Worksheet should take 20 minutes, Waggle dance should take 40-60 minutes.