Honey Bees, Worker Bees, and Drones, Oh My!

What is the role of the Queen bee in the hive?

What is the role of the Worker bee in the hive?

What is the role of the Drone bee in the hive?

Certain liquid secreted by glands of plant

Honeycomb

Beebread

Hive

Bees

Round Dance

Waggle Dance

Ocellus

Proboscis or tongue

Abdomen

Thorax

Stinger

Pollen

Nectar

Royal Jelly

Labs

Honey

Head

Six-sided cells of wax

A milky, yellow syrup that is very high in protein and is fed to larvae

B. Worker Bee

C. Queen Bee

D. Drone

Queen Bees, Worker Bees, and Drones, Oh My!

Activity

Name Date

Activity 1

Honey Bee Matching

Match the words below with their appropriate definition.

A. Drone
B. Workers
C. Queen
D. Honeycomb
E. Hive
F. Royal jelly

Activity 2

The Bee Body

Label the bee’s body parts using words from the list to the right.

Activity 3

Queen Bees, Worker Bees, and Drones, Oh My!

Activity 4

Honey, I’d Love to Dance

There are several bee dances, but the most common are the round dance and the waggle dance. Read the descriptions of both dances below, then write (in your own words) what the worker bee is “saying” on the lines to the right.

Round Dance

Waggle Dance

On the other side of this page, draw a map of the United States, broken into its four regions.

The United States Census Bureau breaks the U.S. into four major regions: Northeast, Midwest, South, and West. Use the Get the Buzz on Honey Bees map to see which states are located in each region, then answer the questions below.

1. Which region of the United States uses honey bees to pollinate alfalfa crops?
2. Honey bees pollinate watermelons in which two regions of the United States?
3. What are the capitals of these states?
4. How many states are in these two regions?
5. Orange blossom honey is valued for its fragrance and is harvested in Florida and California. Approximately how far is the capital of California from the capital of Florida?

Every map includes an important tool: a scale. A scale shows the relationship between distance on a map and distance on the ground. For instance, one centimeter on a map may represent 10 miles on the ground. Use the scale on the Get the Buzz on Honey Bees map to answer the questions below.

1. Check the map for the states that produce honey. Draw a line from Oregon’s capital to the capital of Idaho. Approximately how far is this?
2. What is the correct amount to the left or right of the upright line? The return bee performs the round dance. She goes round and round and back again. If the food is close to the hive (less than 100 yards), a worker bee performs a “weaving” dance. After she weaves, she will dance for a half circle in one direction, then the other. The round dance is used for distances less than 100 yards. If the food is far (more than 100 yards), a worker bee performs a “waggle” dance. She will waggle her abdomen back and forth like a sickle. The waggle dance is used for distances more than 100 yards. Bees can communicate distance to food by dancing.

There are several bee dances, but the most common are the round dance and the waggle dance. Read the descriptions of both dances below, then write (in your own words) what the worker bee is “saying” on the lines to the right.