

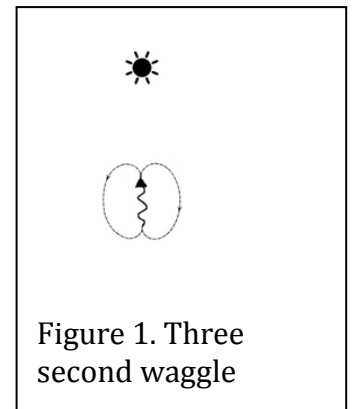
Lesson 5 Why Do Honey Bees Dance? Worksheet

Complete the following questions after you watch the *Why Do Honey Bees Dance?* video. Or, answer the questions as you watch the video (you may need to hit “pause” between questions).

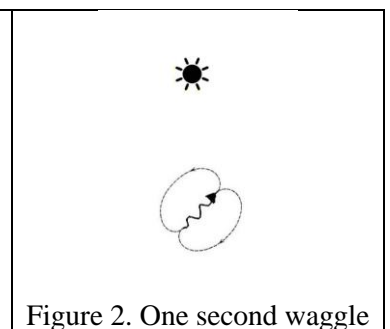
1. In a vertical **hive**, if the **waggle** part of the dance points straight up in relation to the sun, which direction is the food source from the hive?
2. If the bee dances 45° to the right, where is the food source in relation to the sun?
3. One second of wagging equals how much distance to the food source?
4. What percent of our crops are pollinated by bees?
5. How much of the food in your refrigerator is produced from the pollinating activities of bees?



INTERPRETING A WAGGLE DANCE - Using a protractor to measure the angles, answer the following questions AFTER watching the video.

6. Explain where the food source would be located in relation to the sun if the waggle portion of the bee’s dance lasts for three (3) seconds in Figure 1.



7. Explain where the food source would be located in relation to the sun if the waggle portion of the bee’s dance lasts for one (1) second in Figure 2.



<p>8. Explain where the food source would be located in relation to the sun if the waggle portion of the bee's dance lasts for one-half (0.5) seconds in Figure 3.</p>	 <p>Figure 3. One-half second waggle</p>
<p>9. Explain where the food source would be located in relation to the sun if the waggle portion of the bee's dance lasts for one-half (0.5) seconds in Figure 4.</p>	 <p>Figure 4. One-half second waggle</p>