



Bee Social System

Learning Outcomes

Learn what makes a social insect, and the different duties of a honey bee. Learn how bees communicate using a waggle dance.

Discover what it means to be a "social insect." Take a tour of a honey bee hive. Interpret a waggle dance.

Challenges

Insect Sociality

- Some insects, such as honey bees, are referred to as "social insects." Research what it means to be a "social insect." Submit a brief explanation of what 'sociality' means and include any disadvantages for insects living in a social system. Compare and contrast this with human social systems.
- **Learning Outcomes:** *Learn how insects are social and what positives and negatives being social can have.*

Visit to the Royal Palace

- [Complete the virtual simulated tour](#) of a honey bee hive. Pretend you are a news reporter and interview each of the bees within the hive to learn what their role is. Submit the required final news report of your experience, including a brief description of each bee's role within the hive.
- **Learning Outcomes:** *Learn how a honey bee hive works. Learn the roles of honey bee workers and how they must all work together for the good of the hive.*

Waggle Dance

- Honey bees mostly communicate with each other using pheromones but a unique form of communication called a waggle dance has been discovered. Research how honey bee foragers use the waggle dance to show others where outside resources are located. Submit a brief explanation of what you find including the important components of a waggle dance and how other bees interpret it.
- **Learning Outcomes:** *Learn how honey bees communicate. Learn how bees use the waggle dance.*