



AMAZING BEES! **AMAZING EDUCATION!**

BEE-COLOGY!

Honeybee Centre's New Integrated Tour and Classroom Experience for grades K-12

Explore the new Honeybee Centre and Bee-cology! We offer giant-sized observation hives, honey processing facility, greenhouse tour, safe viewing of a beekeeper handling live colonies, experienced tour guide, complimentary teacher information package and lesson plan companion. An unforgettable tour experience.

EXPLORE BEE-COLOGY WITH YOUR **GRADE 6** STUDENTS!

Objectives:

- Honeybee anatomy and lifecycle
- Learn to classify honeybees, their parasites, as well as a variety of plants within the 5 kingdoms of life
- Observe and describe the microscopic parasites of honeybees
- Learn about the cause and treatment of honeybee diseases
- Differentiate between honeybees, Africanized bees, wasps, bumblebees

Honeybee Centre
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All Students will enjoy the following activities while on tour at Honeybee Centre

- Peer into our observation hive and watch bees work and dance, view different castes of bees, identify eggs, larva and pupa (the lifecycle of bees)
- Learn about honeybees as social insects
- Use a microscope and magnifying glass to observe honeybee anatomy
- Identify and observe the different members of honeybee society
- Observe honeybee communication
- Explore the similarities and differences between our honeybees and Africanized bees, bumblebees, wasps and solitary bees using a magnifying glass and microscope
- Appreciate the intricate and symbiotic relationship of honeybees and flowering plants
- Learn how and why bees pollinate through models and visual aids
- Learn about the lifecycle of flowering plants using models and visual aids
- Observe the characteristics of flowers that are pollinated by bees
- Explain how and why bees collect pollen
- Describe how and why bees make honey, wax, propolis and royal jelly
- Taste pollen, honey, propolis
- Experience how bees navigate and sense their world using various scientific equipment
- Learn about the history of beekeeping
- Observe equipment and clothing used by beekeepers
- Learn how to build a beehive
- Watch as a beekeeper handles an active colony of honeybees
- Describe how a beekeeper harvests honey, pollen and propolis
- Appreciate the economic importance of the honeybee industry
- Understand the interdependence of humans and honeybees

In addition, Grade 6 Bee-cology contains lessons and activities to fulfill the following Prescribed Learning Outcomes in the context of honeybees.

Life Sciences (Microscopic World)

- Describe all living things as being composed of cells
- Identify the characteristics of various single-celled organisms
- Describe the similarities and differences in plant and animal cells
- Analyze the effects of micro-organisms on other organisms

Life Science (Classification of Organisms)

- Describe how all living things belong to one of five kingdoms (Plants, Animals, Monera, Protista, Fungi)
- Classify plants and animals according to their internal and external features
- Develop common classification systems for organisms