



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 7** STUDENTS!

Objectives:

- Honeybee anatomy and lifecycle
- Differentiate between honeybees, Africanized bees, wasps, bumblebees
- Observe and describe the interconnected food webs of honeybees and people
- Describe ways in which honeybees interact with other species
- Learn about beekeeping issues in the various biogeoclimatic zones of B.C.
- Determine the limiting factors for honeybee ecosystems
- Outline how honeybees help the recovery of damaged ecosystems
- Describe the reproduction of flowering plants, pollination and honeybees
- Observe and describe honeybee metamorphosis

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 7 Bee-cology contains lessons and activities to fulfill the following Prescribed Learning Outcomes in the context of honeybees.

Life Sciences (Ecology)

- Describe all organisms in terms of their roles as part of interconnected food webs
- Describe ways in which species interact with each other
- Compare and contrast the major biogeoclimatic zones of B.C.
- Determine the limiting factors for local ecosystems
- Outline the stages of recovery of a damaged local ecosystem

Life Science (Body Systems)

- Compare and contrast asexual and sexual reproduction in both plants and animals
- Describe the growth and changes in the development of an organism