



LIFE CYCLE OF BEES

Subject Area: **SCIENCE**
Grade: **2**



GENERAL LEARNER OUTCOMES

Enduring Understandings/Big Ideas:
(from Harden: Lesson specific) Students will understand:

2–10 Describe the general structure and life habits of small crawling and flying animals.

3. Recognize that small animals, like humans, have homes where they meet their basic needs of air, food, water, shelter and space; and describe any special characteristics that help the animal survive in its home.

6. Identify and give examples of ways that small animals avoid predators, including camouflage, taking cover in burrows, use of keen senses and flight.

8. Identify ways in which animals are considered helpful or harmful to humans and to the environment.



ESSENTIAL QUESTIONS

Why are bees so important?
What is their main purpose?





LEARNING ACTIVITY

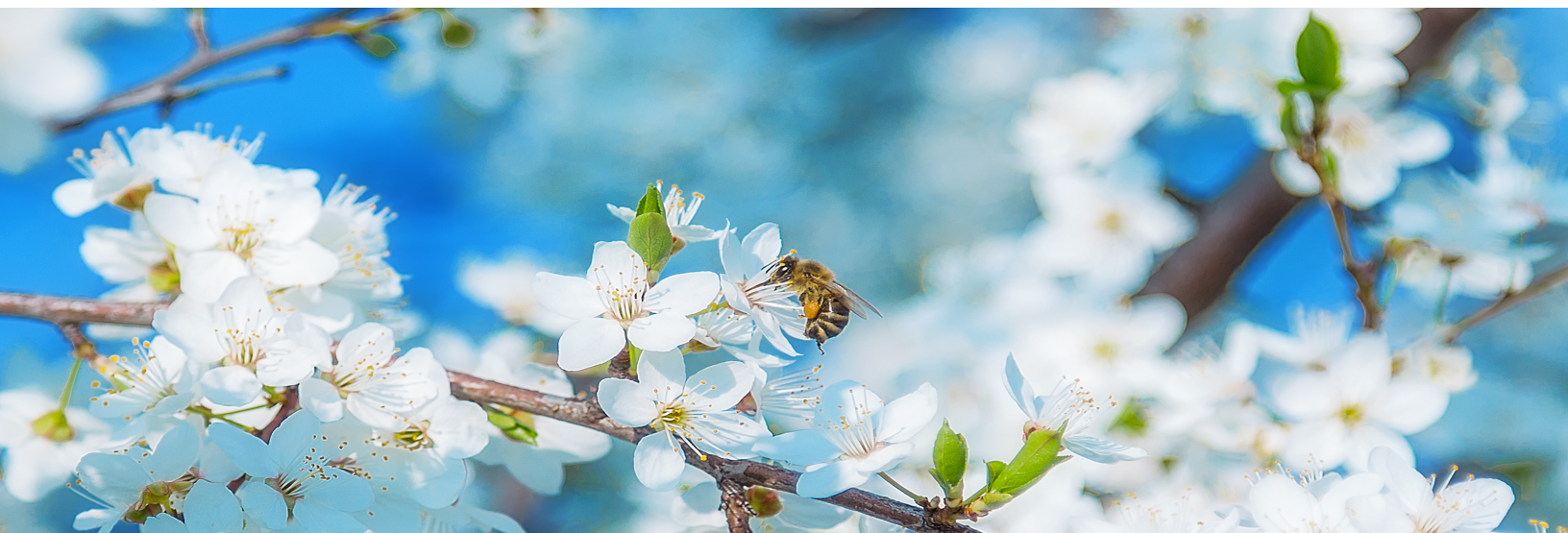
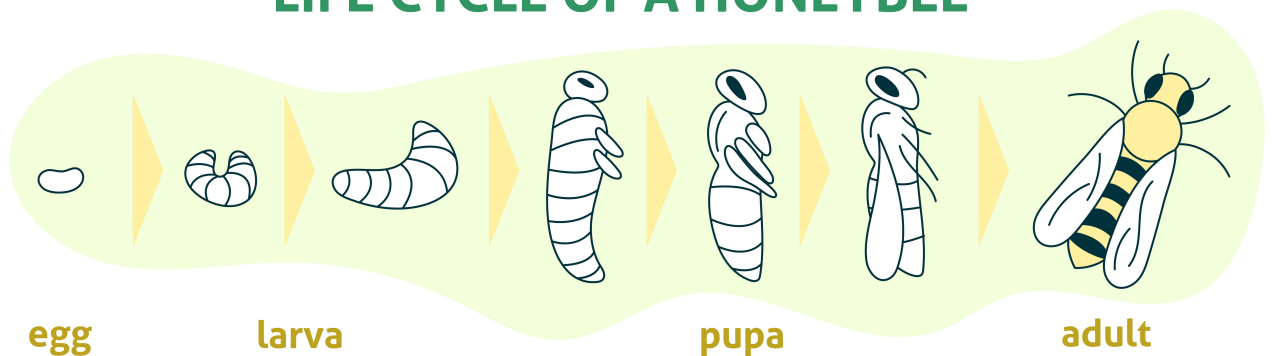
Bees are important! Bees are very important to our ecosystem, they are key to the growth of trees, flowers and many other species. Bees are pollinators (they carry pollen around and fertilize from plant to plant) They visit the world's top crops all over and help them produce better yields.

Most of our fruit and seed crops would not produce if it was not for the transfer of pollen from one blossom to another. About one-third of the total human diet is derived directly or indirectly from insect pollinated plants. The value of pollination to agriculture has been estimated to be far greater than the value of hive products.

Today we are going to learn about the 4 Stages of the Life Cycle of a Bee!



LIFE CYCLE OF A HONEYBEE



STUDENT ASSIGNMENT and TEACHER INSTRUCTIONS:

ART 2: PAPER BEE ACTIVITY

Art Material:

*Toilet Tube
Colourful craft Paper
Paper Glue
Scissors
Colourful Marker Pens*



Instructions:

Step 1:

First, you'll need to cut out the pieces for your toilet tube bee using the craft paper.

Step 2:

Then, you need to glue the black paper strips horizontally on the yellow craft paper.

Step 3:

Use marker pens to draw the eyes and face of the bee.

Step 4:

Now roll and glue the yellow paper on the tissue paper roll.

Step 5:

Finish it off by gluing the wings on the back and antennas on top of the bees head.

REFERENCES:

www.craftplaylearn.com/easy-paper-bee-craft-for-kids/

www.ontariohoney.ca/educators/the-honey-bee

Lesson plan adapted by Jeff Turner (2016) from:

Wiggins, G. & McTighe, J. (1998). *Understanding by design*. Alexandria, Virginia: Association for Supervision and Curriculum Development.

Llewellyn, D. (2013). *Teaching high school science through inquiry and argumentation*. Thousand Oaks, CA: Sage.