

Grade Level: 5-6 Subject: Science

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# **Lesson Developed by:**

## **Lesson 1: The Power of Pollination**

**Lesson Description:** Students will learn how pollination yields fruit via insect services.

## **Concepts:**

- Pollination What is pollination and how does it yield fruit?
- Fertilization
- Flower & Insect Anatomy

#### **Estimated Time:** 60 minutes

PowerPoint presentation (17 slides): allow 45+ minutes; includes ample time for Q & A/ discussion, and sharing time (students share experiences and observations).

Flower Anatomy Activity (worksheet) – allow 15+ minutes; Option: do activity at a later date (brief review of slide show concepts, followed by activity).

#### **Materials & Essential Files:**

- Power of Pollination PowerPoint file (~17 slides; "plug and play" presentation with script in notes; includes an embedded video of bumble bee buzz pollination).
- Basic Flower Anatomy Worksheet/Activity- (students label and color basic parts of a flower; two worksheet options).

**Vocabulary:** Pollen, Pollinator, Pollination, Buzz Pollination, Species, Nectar, Fertilization; Flower Anatomy: petals, sepals, stamen, anthers, ovary, ovules, filaments, style, pollen tube, pistil, stigma

## **Procedures:**

- 1. Following the PowerPoint presentation, leave the flower anatomy slide up (Slide 12) which has a flower with all parts labelled. Note: the flower on the screen looks different than the worksheet flowers, challenging the students to figure out which parts are which on a flower with a different shape and overall look).
  - 2. Students follow worksheet prompts... (color and label the flower parts).





#### **Standards:**

NGSS DCIs (Core ideas linked to lesson):

PS2B - Types of Interactions

LS1A – Structure and Function

LS2A – Interdependent Relationships in Ecosystems

LS3B - Variation of Traits

LS1B - Growth & Development of Organisms

LS4B - Natural Selection

ESS3A - Natural Resources

## **Literacy Outcomes:**

Students will be able to demonstrate what they learned with the following statements:

- I can explain how pollination works.
- I can name two different types of pollinators.
- I can explain how pollinators are needed to produce apples/pears/peaches on our orchard trees.

