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Alstromeria Flower Dissection

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Protocol status: In development

We are still developing and optimizing this protocol

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Abstract

A flower dissection is a great way to engage in biology by exploring the different parts of a flower. In this lab, students will dissect an alstroemeria flower and create a figure that labels the petals, sepals, stamen, and pistils. When performed with the attached worksheet, this lab fulfills the next generation science standard (NGSS): Animal Behaviours and Plant Structures for Reproductive Success (MS-LS1-4).



Materials

Flowers (alstroemeria)

White Paper or Paper Plates

Pencil

Camera/Smart Phone

Hand Lens/Magnifying Glass

Scissors

Tweezers

Handouts - Feel Free to Comment to make changes!

Safety warnings

 Flowers will be hurt in the process of this lab, but it is for Science!

Before start

Purchase alstroemeria from your local grocery store. The flowers are \$3-6 per stem with 3-6 flowers each.

Review **handouts** to ensure alignment with your class.



Set Up

4m 30s

- 1 Precut flowers from stems, one stem per student
- 2 Prepare workspace with paper/plates, pencil, magnifying glass
- 3 Have extra flowers available for damaged specimens
- 4 Print and pass out the handout

2m

15s

15s

2m

Procedure Overview

20m

- 5 Students photograph intact flower and make initial observations
- 6 Remove 6 petals individually
- 7 Remove 3 green sepals
- 8 Remove 6 stamens
- 9 Identify stigma (3-lobed), style, ovary, pistil structure
- 10 Arrange parts on paper and label each part
- 11 Take picture of arranged flower parts with labels

5m



2m

2m

2m

2m

2m

5m





Protocol references

This protocol is based on the Lily Dissection with Emily YouTube video below. <https://www.youtube.com/watch?v=ujWnAJojk1A>

Alstromeria Image By Noodle snacks, CC BY-SA 3.0, <https://commons.wikimedia.org/w/index.php?curid=5817159>

<https://www.youtube.com/embed/ujWnAJojk1A?si=zR9XSGJKDFEmb7GJ>