



PROJECT OCEANOLOGY



Algae Investigation Elementary NGSS Alignments

Overview

In this lab, students will investigate algae: review anatomy and functions of different parts of algae, classifications, and place in the food web. This lab additionally allows students to create a herbarium- a preserved piece of algae art. Following algae exploration, students will learn how algae is used in day to day products, and how it functions as a gel in food substances. Students will apply this knowledge to make an algae extract infused homemade ice cream.

Performance Expectations

4-LS1-1 Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.

Students will explore parts and types of algae and how each part contributes to its survival and growth

5-LS1-1 Support an argument that plants get the materials they need for growth chiefly from air and water.

Students will explore anatomy of different algae- a non flowering plant like organism that survive through air and water

Science and Engineering Practices

Planning and Carrying Out Investigations

Students will investigate different algae classes, functions, and structures

Engaging in Argument from Evidence

Students will learn the various parts of algae that promote life and survival

Developing and Using Models

Students will create herbarium algae models

Crosscutting Concepts

Structure and Function *Students will explore parts of algae and the function in each part*



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Disciplinary Core Ideas

LS1.A: Structure and Function *Students will explore different traits of algae that allow them to thrive*

LS2.A: Interdependent Relationships in Ecosystems *Students will learn of the importance of algae to the food chain*