



Ms. B's Environmental Science Thematic Lessons

December - January - February



Winter 2019-2020

The garden is put to bed until spring, but we still study the living things in our ecosystem.

This season our students will learn about the environment, ecology and nutrition in the following thematic units.

We will focus on real world issues and solutions through hands-on activities, incorporating STEAM focused projects with visits from scientists and artists to help us understand and explore our world.



Rooftop Garden &
Room #232



Kindergarten

Push & Pull

- Over the course of the unit, students construct a foundational understanding of why things move in different ways.
- We also start our tree studies.



3rd Grade

Inheritance & Traits

Environments & Survival

- Students observe variation between and within different species, investigate inherited traits and those that result from the environment, and explain the origin of several of good and bad garden insects.



1st Grade

Light & Sound

- Students investigate cause and effect relationships to learn about the nature of light and sound.
- STEAM project



4th Grade

Vision & Light, Earth's Features

- We will investigate the interconnected parts of our ecosystem through a Muir Web and investigate soil further to prep for our in depth look at it's importance.



2nd Grade

Properties of Materials

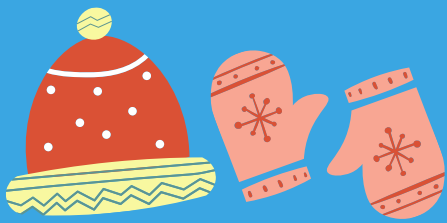
- Students will investigate the components of soil, and design their own seed packet based on plant needs.
- STEAM project.



5th Grade

Modeling Matter, The Earth System

- Students learn about the Earth system to understand that what we do in our homes and community affects our water system.
- STEAM project



Winter Units K-5th



| Month | Kindergarten | 1 st Grade | 2 nd Grade | 3 rd Grade | 4 th Grade | 5 th Grade |
|------------------------------------|---|--|--|---|---|---|
| Dec | Amplify: Push + Pull: SS: Myself & Others I speak for the Trees: leaf sort 1, 2 Tree pre-lesson | Light & Sound: SS: families now and long ago 1, 2, Tree | Properties of Materials: Compost: Organic/Inorganic components | Inheritance & Traits: Cultivars and Varieties Apple traits | Vision & Light: MUIR WEB: Biodiversity | Modeling Matter: Recycled Bottle Terrariums |
| Jan | Push + Pull: 1,2, tree scientist | Light & Sound: 1, 2, Tree artist | Properties of Materials: Reading and Design a Seed Packet | Inheritance & Traits: Good bugs/Bad Bugs | Soil Studies for Earth Features prep: Importance of Soil | Transition lesson: Modeling Matter into Earth systems |
| Kids in the Kitchen: Winter Recipe | | | | | | |
| Feb inside | Push + Pull: 1, 2, Tree Artist | Light & Sound: STEAM: Light catchers and Wind Chimes | Properties of Materials: Seed Dispersal | Environments & Survival: Preserving food | Earth's Features: STEAM Project: SOIL Watershed Conservation Erosion Soil w/plants, Soil w/o plants Sand with plants, rocks with Sand with plants, rocks with water | The Earth System: People, plants and animals sharing space STEAM Project: Green roofs & Energy What does the roof do? We need access to information from Portfolio Manager and weather station |

