

EAST ISLIP SCHOOL DISTRICT

OHM SCIENCE: SCOPE AND SEQUENCE

GRADE	Unit 1	Unit 2	Unit 3
Grade 2	<p style="text-align: center;"><u>Plants: Structure and Function</u></p> <p>NYSSLS Covered:</p> <p>2-LS2-1, 2-LS2-2</p> <p><u>Driving Question:</u></p> <p>What do seeds need to survive?</p> <p><u>Students will:</u></p> <ul style="list-style-type: none"> - examine a variety of seeds and use their senses to describe each seed. Each student will also plant two seeds in a cup of soil. - learn what the function of each part of a seed is and label the parts on a seed diagram. - setting up germination bags and learning about the growth log that will be used on a continuous basis - learn about the process of seed dispersal and then test the ways seeds get dispersed - gain information about the parts of plants and what their function is - examine the life cycle of plants 	<p style="text-align: center;"><u>The Nature of Matter</u></p> <p>NYSSLS Covered:</p> <p>2-PS1-1, 2-PS1-2, 2-PS1-4, K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3</p> <p><u>Driving Question:</u></p> <p>How can understanding the different properties of matter help solve problems?</p> <p><u>Students will:</u></p> <ul style="list-style-type: none"> - measure the mass of blocks (same volume, different mass) using a pan balance - measure the volume of cubes in water (the space they take up) and record data. - measure the volume of irregular shapes in water (the space they take up) and record data - use clay to mold a boat that will float - use their five senses to describe the properties of a variety of materials. - measure and test the properties of a variety of materials. 	<p style="text-align: center;"><u>The Dynamic Earth</u></p> <p>NYSSLS Covered:</p> <p>2-ESS1-1, 2-ESS2-1, 2-ESS2-2, 2-ESS2-3, K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3</p> <p><u>Driving Question:</u></p> <p>How does land change over time?</p> <p><u>Students will:</u></p> <ul style="list-style-type: none"> - learn characteristics of various landforms and bodies of water - learn how wind erodes and deposits sediments and very slowly changes the appearance of landforms. - I learn how water erodes and deposits sediments and changes the appearance of landforms depending on how fast or slow it is moving.

	<ul style="list-style-type: none">- review what a plant needs to grow and make predictions about how a plant will/will not grow when certain variables are withheld	<ul style="list-style-type: none">- be introduced to the 3 states of matter and that changes in matter are happening all around us; some being reversible, some not- create a boat that is able to carry a load and move by wind power across water from a beginning point to an end point	<ul style="list-style-type: none">- learn how gravity erodes and deposits sediments and changes the appearance of landforms- learn how glaciers erode and deposit sediments and change the appearance of landforms.- experiment with soil to learn what soil is made of and to see how the various sediments in soil deposit themselves in layers when mixed with water.- use knowledge obtained throughout this unit to brainstorm, design and test ways to prevent wind and water erosion.
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