

EAST ISLIP SCHOOL DISTRICT

OHM SCIENCE: SCOPE AND SEQUENCE

GRADE	Unit 1	Unit 2	Unit 3
Grade 1	<p style="text-align: center;"><u>Light Sound and Communication</u></p> <p>NYSSLS Covered:</p> <p>1-PS4-1, 1-PS4-2, 1-PS4-3, 1PS4-4, 4-PS4-1</p> <p><u>Driving Question:</u></p> <p>How do people communicate using light and sound?</p> <p><u>Students will:</u></p> <ul style="list-style-type: none"> - be introduced to energy through different forms of media - be introduced to two forms of energy, chemical and mechanical - be introduced to two forms of energy, light and heat. - explore the different energy forms that have been introduced (mechanical, light, heat, and chemical) - identify that light commonly comes from three different sources: natural (sun), chemical (fire, glow stick), electrical (light bulb) 	<p style="text-align: center;"><u>Our Sun and The Night Sky</u></p> <p>NYSSLS Covered:</p> <p>1-ESS1-1, 1-ESS1-2</p> <p><u>Driving Question:</u></p> <p>What patterns can I see when looking at the sun, moon, and stars throughout the year from where I live?</p> <p><u>Students will:</u></p> <ul style="list-style-type: none"> - be introduced to the concept of space. The students will identify the sun, Earth, moon and stars as parts of “space - learn more about the Sun and how it appears to “travel” across the sky - be introduced/review cardinal directions (North, South, East, West) - understand that the sun rises in the east and sets in the west - I learn that the Earth not only rotates, but it also revolves around the Sun - be using their knowledge of previous lessons to identify what Earth looks like during the 	<p style="text-align: center;"><u>Animals and Survival</u></p> <p>NYSSLS Covered:</p> <p>1-LS1-1, 1-LS1-2, 1-LS3-1</p> <p><u>Driving Question:</u></p> <p>How do animals survive?</p> <p><u>Students will:</u></p> <ul style="list-style-type: none"> - learn that animals and plants have different characteristic - be reviewing animal and plant characteristics - be introduced to the different animal body coverings and types - be defining the word appendage and identifying the different appendages that an animal could have - examine the different types of animals and their types of teeth. - be introduced to animal eyes and ears. - be learning how some animals see differently from other animals and how some

	<ul style="list-style-type: none"> - make observations using a light box to help them infer that objects can only be seen if objects are illuminated or if the object produces its own light - be told that light can produce heat. They will then perform experiments to verify this fact. - discuss how light energy from the Sun can be stored and used as a renewable energy source as demonstrated by an experiment. - place materials in front of a flashlight to see which ones do or do not allow light to pass through. - be introduced to the concept of reflection. Students will be using a flashlight and mirrors to practice having light reflect - identify how sunlight can be harmful and helpful. - be introduced to sound as a form of energy. The teacher will be introducing sound as a vibration through various models. -have the opportunity to explore different items around the room for reflection and absorption. - discuss ways that communication has changed - use their knowledge of sound and light energy to communicate without speaking/writing words 	<p>three remaining seasons: spring, summer, and fall</p> <ul style="list-style-type: none"> - review what stars are and how they form constellations - be introduced to the moon and learn that it reflects light. This lesson will serve to debunk any myths about the moon and to help students learn some facts - be introduced to the different phases of the moon and how they are dependent on the positions of Earth, moon, and sun - be using the data they collected from their observations throughout this unit to identify patterns 	<p>animals' ears serve different purposes than just hearing</p> <ul style="list-style-type: none"> - learn about different animal behaviors for survival. - review different ways that animals and people communicate - be looking at comparisons of how young are like/dislike their parents. - be introduced to the idea of biomimicry
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