## EAST ISLIP SCHOOL DISTRICT

## OHM SCIENCE: SCOPE AND SEQUENCE

GRADE	Unit 1	Unit 2	Unit 3
Grade 4	Structures and Functions of Life	Shaping our Earth	Understanding Energy
	NYSSLS Covered:	NYSSLS Covered:	NYSSLS Covered:
	4-LS1-1, 2-LS2-2, 4-LS1-2, 4-PS4-2,	4-ESS1-1, 4-ESS2-1, 4-ESS2-2,	4-PS3-1, 4-PS3-2, 4-PS3-4,
	3-5-ETS1-2, 3-5-ETS1-2, 3-5-ETS1-3	4-ESS3-2	4-ESS3-1, 3-5-ETS1-2, 3-5-ETS1-2,
	Driving Question:	Driving Question:	3-5-ETS1-3
	How do plants and animals survive,	How does the earth change over time?	Driving Question:
	grow, and reproduce?	Students will:	What are different forms of energy?
	Students will:	- examine how the slope of earth's	<u>Students will:</u>
	- relate their prior knowledge of parts of	surface affects the rate of erosion	- be introduced to the definition of
	of those body parts (physiology).	- determine that a larger volume of	energy
	- understand that all living things have		- understand that all of the energy used
	certain activities or goals in common	rate of erosion	on Earth originates from our Sun
	- explore the concept of photosynthesis	- determine how the evidence found in	- identify different forms of energy
	- conduct their own experiment on how plants can move	rocks would suggest that the Earth experiences changes	- determine if potential or kinetic energy is displayed.
	- review types of seed dispersal methods	- make comparisons of earthquakes, volcanoes, and tectonic plates	- convert energy from one form to another.
			- examine energy efficiency in the home

-review types of consumers and	- see the effect that temperature	-learn about the pros/cons of current
examine their classroom organism, the	changes have on the fluid movement	energy production methods
<ul> <li>fiddler crab.</li> <li>learn more about the digestive system</li> <li>learn about cells and how they get energy</li> <li>understand their senses and how they would help them survive</li> <li>learn how the human eye works in detecting light and helping them see</li> <li>explore how muscles work and compare their muscles to the fiddler crab's muscles</li> <li>learn about how animals attract and find mates</li> <li>design an experiment testing the senses of the fiddler crab</li> </ul>	Engineering Design: design and build an earthquake proof building	