EAST ISLIP SCHOOL DISTRICT

OHM SCIENCE: SCOPE AND SEQUENCE

GRADE	Unit 1	Unit 2	Unit 3
Kindergarten	**Gravity and Motion** **NYSSLS Covered:** K-PS2-1, K-PS2-2 **Driving Question**: How does force affect the motion of an object? **Students will:** - explore the concept of term at position at rest - identify placement of animal on the grid - be introduced to vocabulary of: in motion, at rest, speed (fast and slow) - be introduced to the concept of gravity. - with teacher assistance, students will measure how long it takes the ball to reach the end of a ramp at different angles -make predictions about where a ball will land after being rolled down the ramp at different angles	**Weather and Climate** **NYSSLS Covered:** K-PS3-1, K-PS3-2, K-ESS2-1, K-ESS3-1, K-PS1-1 **Driving Question**: Why is weather important? **Students will:** -be introduced to the concept of weather, the different types of weather and how weather changes - be introduced to a thermometer and will complete an experiment about temperature - measure the temperature of different substances after the teacher heats them and look for similarities and differences - design a structure to reduce the warming effect of the sun on a material of the Earth. - record information on the daily weather journal page. -use past weather data to look for patterns.	**Relationships in an Ecosystem** **NYSSLS Covered:** K-LS1-1, K-ESS3-1, 4-PS3-3, K-ESS2-2, K-ESS3-3, K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3 **Driving Question**: What is an ecosystem? **Students will:** - identify living and nonliving things - identify characteristics that make something living - setting up a class mini-ecosystem, including beta fish and a snail. - be planting their own seeds which will grow, and they will observe throughout the rest of the lessons. - discuss what organisms need to eat to survive, and then they will discuss different adaptations that these organisms need to have in order to be able to eat these foods.

	- introduced to the concepts of force and mass. - understand that by changing the mass of the ball, the force of the ball will also change	- learn about the weather associated with each of the seasons -identify the proper clothing they should wear for each season - predict the weather for each season - introduced to severe weather, the different types of severe weather in our area and the characteristics of this weather.	- be introduced to their five senses. Students will be engaged in an activity that activates all of their five senses - discuss how animals are able to use their five senses to explore the world around them. - discuss the ways that they can help the environment and the animals in it. - examine the plants they planted in Lesson 1 and identify the structures that allow the plant to survive in its environment - all of the knowledge from this kit to create a food chain. - examine the ways that animals can use the items in their environments to survive - examine several animals and discuss the adaptations that help those animals survive - observe and compare two plants and explain the ways that they have adapted to the environment - design a project using all recycled materials