Kenmore-Tonawanda Union Free School District
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Science - Kindergarten

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Options	Standards	Essential Questions	Content	Skills	Suggested Resources	Assessment	Resources
		Life Science					
		How do plants and animals grow and change?	Animals move and change Classify how animals are alike and different Parts of plants and plant growth	Animals move and change Classify how animals are alike and different Parts of plants and plant growth	Gr. 1 Proper Property Pursuit.doc		
		What do plants and animals need to live and grow?	Classify living and non-living things. Basic needs of plants and animals	Classify living and non-living things. Basic needs of plants and animals			
		Earth Science How do we use land, water and air?	The Earth's Surface Landforms Where water is found on earth How we use water and air	Observe soil, sand and rocks of different textures. Make a model of a mountain, valley and plain. Compare and contrast differences.			

			Caring for the earth	Create a model of a mountain. Observe changes and record data. Identify and describe the terms: Earth, rock, shape, form, farming, wood, river, lake, ice, windmill, clearing, protect, recycle.			
		Life Science Where do plants and animals live?	Types of plants that live in water Types of plants that live on land Where plants live Where animals live	Observe various environments in which plants and animals live. Classify where animals and plants live using pictures and graphic organizers. Create murals of various animal and plant habitats Identify and describe the terms land, field, pond, ocean, desert, cactus, cold, snow, mountain, grassland.			
		Earth Science What is the weather like in each season?	Different Kinds of Weather Spring Summer Fall	Observe pictures of different kinds of weather. Identify weather elements and record data. Measure			

			Winter Storms	temperature of water using a thermometer. Make observations and inferences. Record data. Classify activities that one would do in each season and discuss. Chart a "favorite seasons" graph. Observe the effect of wind on various objects.			
		Physical Science Solids, Liquids, and Gases. Changing solids, liquids and gases	Classify a set of objects by characteristics and observable properties. Identify and describe the terms size, color, shape, weight, hard, soft, matter, solid, liquid, float, sink, gas, container, fold, bend, freeze, melt, heat and classify. Measure temperature of water using a thermometer. Make observations and				Gr K Sink or Float

			inferences. Record data.				
		What gives us light and heat?	Sources of heat Sources of energy	Identify and describe the terms:sun, heat, shadow, shade, fire, friction, energy and electricity. Observe that the sun raises the temperature of objects. Observe and explain that light passes through some objects and not others. Observe and record that the sun's position in the sky changes throughout the day. Observe and record which objects cast shadows.			
		How do things move?	Movement Sound Magnets	Identify and describe pushing, pulling, direction, places, fly, turn, twirl, fast, slow, sound, loud, magnet, attract, metal. Classify objects by how fast or slowly they			

				move. Classify objects that make loud and soft sounds. Conclude through experimentation that sound waves can be felt. Observe and classify objects based on which can be moved by a magnet. Observe objects that are magnetic. Classify objects by which ones are attracted by magnets and which are not.			
		Space and Technology How are night and day different?	Changes in the daytime sky Changes in the nighttime sky	Identify and describe the terms: day, sky, cloud, night, moon, stars, rise, set, morning, evening, full moon, new moon. Classify pictures into daytime or nighttime categories. Observe and describe how the sky looks in the day and at night.			

				Observe and explain how the sun and moon appear differently at different times of the day, night, and season.			
		How do we use machines?	Kinds of Simple Machines Machines that help us move from place to place Why we use simple machines	Identify and describe kinds of machines: wheels, axles, levers, ramps, pulleys. Observe and describe how simple machines work: pulley, ramp, lever, wheels, axles, computers, lamps. Observe and describe how motion is changed by a push or pull. Observe and describe how force (how hard you push) relates to motion (how it goes.) Identify and describe machines that are used for transportation: bus, plane, train, car, bicycle.			

				Describe the uses for various machines. Identify the terms invention and inventor and explore examples of both terms.			

Last updated: 8/8/2011