

## K-5 Science Content Emphasis Flow Chart 2005-06

Content	K	1	2	3	4	5
<b>Earth Materials</b>		Emphasis on <b>investigating</b> physical properties of rocks, sand, silt, and soils. Through <b>investigation</b> , develop student-made rules for sorting.		Emphasis on <b>investigating</b> types, composition, and formation of soils and their relationship to growth of plants.	Emphasis on <b>investigating</b> the properties of rocks and minerals and <b>investigating</b> minerals as components of rocks.	Emphasis on using <b>models to investigate</b> the breakdown, movement, deposition of earth materials, and the cycling of water.
<b>Weather</b>	Emphasis on <b>observing</b> how weather impacts self/world. <b>Observe</b> /draw sky conditions. Note rainy, clear, and cloudy. Chart/draw "data" to keep in the classroom.		Emphasis on <b>investigating changes</b> in weather using tools. Use data collected over a period of time to make predictions.			Emphasis on using <b>models</b> and natural settings to <b>investigate</b> weather and climate through data collection and analysis of trends and patterns.
<b>Plants</b>		Emphasis on <b>investigating</b> needs of plants identified through <b>investigation</b> .		Emphasis on <b>investigating</b> plant growth and their adaptations for survival.		Emphasis on <b>investigating</b> the relationships among plants and animals in a variety of <b>model</b> and natural ecosystems.
<b>Animals</b>	Emphasis on <b>observing</b> similarities and differences in animals.	Emphasis on <b>investigating</b> needs of animals identified through <b>investigation</b> .	Emphasis on <b>investigating changes</b> through life cycles of insects and other animals.	Emphasis on <b>investigating</b> the form and function of the skeletal and muscular systems of the human body.	Emphasis on <b>observations and investigations</b> of animals in <b>model</b> environments and animal adaptations for survival.	Emphasis on <b>investigating</b> the relationships among plants and animals in a variety of <b>model</b> and natural ecosystems.
<b>Energy</b>			Emphasis on <b>investigating</b> heat as a way of changing properties of objects.		Emphasis on <b>investigating</b> electricity, electric circuits, and the interaction of electricity and magnetism.	Emphasis on using <b>models to investigate</b> the sun as the source of energy for ecosystems and the sun as the source of energy for the water cycle.
<b>Chemistry</b>	Emphases on <b>observing</b> that common objects made of different materials have different physical properties.	Emphasis on <b>investigating</b> the properties and relationships of solids and liquids.	Emphasis on <b>investigating</b> different states of materials: solids, liquids, and gases. <b>Investigate changes</b> in properties of materials.		Emphasis on using chemical tests to <b>investigate</b> how food provides energy and materials for growth and repair of the body.	
<b>Physics</b>		Emphasis on <b>investigating</b> how solids and liquids move.	Emphasis on <b>investigating</b> the concepts of sound.	Emphasis on <b>observing</b> the positions of the Earth/moon/sun system and the patterns of movement.		Emphasis on using <b>models to investigate</b> forces and motion in technological design.
<b>Tech. Design</b>	Emphasis on <b>observing</b> the use of appropriate tools and measurements to describe their world.	Emphasis on <b>investigating</b> balance, motion, and weight of objects.	Emphasis on <b>collecting and analyzing data</b> using tools: thermometers, gauges, and windsocks. <b>Investigate</b> with objects factors that affect sound.			Emphasis on <b>investigating</b> weather data using technology to observe and collect data for weather trends over time. <b>Investigate</b> the impact of force and motion on technological designs.