Essential Questions
Concepts providing focus for student learning
How does it move and/or change?
(physical science including chemistry)
How is it similar to and different from me?
(life science and health)
How do scientists work and think?
(inquiry as a teaching methodology and student action)
How is or was it made?
(earth science, design technology, science history)
How can I impact the future?
(environmental science, social perspectives science and health)

Science/Health Curr	riculum Overview			Revis	ion Date: Summer 2005			
		CONTENT AREAS & UNITS						
	Physical Science	Earth/Space Science	Life Science	Health	Safety			
	The physical world is governed by the properties and interactions of matter and energy. People apply tools, skills and scientific knowledge to find, investigate and solve problems.	Earth, within the universe, is constantly changing. All parts of an environment are interrelated: therefore, changes to one part affect other parts.	Living things are diverse, interdependent, and evolving.	The human body is made up of complex systems that interact to keep an individual alive.	People make decisions that impact their safety. Living safely, preventing accidents and illness, and observing and following proper procedures during emergencies will advance through knowledge acquisition and skill development.			
Kindergarten Scale & Structure	Properties of Materials	Day and Night	Plants and Animals	The Senses	Safety			
Grade 1 Systems & Interactions	Matter	Weather	Basic Needs & Survival	Parts & Systems	Safety			
Grade 2 Patterns of Change	Balance & MotionSound Waves	Geological Changes: Weathering/Erosion	Life Cycles	Healthy Living	Safety			
Grade 3 Scale & Structure		 Earth Materials / Rocks & Minerals Outer Space 	Classification of Living Things	Bones & Muscles	Safety			
Grade 4 Systems & Interactions		Water / Oceans	Animal / Plant Interactions	Digestion, Respiratory & Circulatory Systems	Safety			
Grade 5 Patterns of Change	 Energy Science & Technology in Society Electricity & Magnetism 	Landforms	Change Over Time (Heredity & Mutation)	Brain & Nerves	Safety			

Science/Health Curr	culum – Kindergarten			Revision Date: Summer 2005		
SCALE & STRUCTURE						
Physical Science	Earth/Space Science	Life Science	Health	Safety		
The physical world is governed by the properties and interactions of matter and energy. People apply tools, skills and scientific knowledge to find, investigate and solve problems.	Earth, within the universe, is constantly changing. All parts of an environment are interrelated: therefore, changes to one part affect other parts.	Living things are diverse, interdependent, and evolving.	The human body is made up of complex systems that interact to keep an individual alive.	People make decisions that impact their safety. Living safely, preventing accidents and illness, and observing and following proper procedures during emergencies will advance through knowledge acquisition and skill development.		
 Properties of Materials All objects can be described in terms of component ingredients and/or physical properties. Some properties may change in response to interaction with other materials. 	 Day and Night Changes on the earth, in the seasons, and in weather can be observed and recorded. Changes and patterns are observable and predictable. 	 Plants and Animals Living things have observable characteristics. 	The Senses • People use their senses as a means of gathering information in order to make safe decisions.	Safety• People observe and organize the world to stay safe, take action to stay healthy, and respond to emergency situations.AIDSPATH * BicycleBusPedestrian BusBusPersonal Safety EarthquakeFire		
	Re	sources: 🛆 FOSS 🕇	Scholastic			
 △ Wood △ Paper △ Fabric + Matter 		 △ Trees △ Animals 2 x 2 ▲ Alive 	+ Your Senses	See safety resource list * Positive Actions Toward Health		

Science/Health Curr	iculum – Grade 1			Revision Date: Summer 2005		
SYSTEMS & INTERACTIONS						
Physical Science	Earth/Space Science	Life Science	Health	Safety		
The physical world is governed by the properties and interactions of matter and energy. People apply tools, skills and scientific knowledge to find, investigate and solve problems.	Earth, within the universe, is constantly changing. All parts of an environment are interrelated: therefore, changes to one part affect other parts.	Living things are diverse, interdependent, and evolving.	The human body is made up of complex systems that interact to keep an individual alive.	People make decisions that impact their safety. Living safely, preventing accidents and illness, and observing and following proper procedures during emergencies will advance through knowledge acquisition and skill development.		
<u>Matter</u> • Matter changes in a variety of ways.	Weather • The sun, air and water are integral components of weather.	 Basic Needs & Survival All living things have basic needs for survival. A habitat provides for the basic needs of plants and animals. 	Parts & Systems • The human body has parts and systems that work together as integral parts of the whole body system.	 <u>Safety</u> People make decisions to avoid hazards, risk behaviors and follow procedures during emergencies. Diseases can be communicable and non-communicable. Germs can be spread. Personal hygiene and emotional self-understanding affect one's attitude and well-being. AIDS PATH * Bicycle Pedestrian Bus Personal Safety Earthquake Playground Fire 		
	Re	sources: \triangle FOSS -	- Scholastic			
△ Solids & Liquids ╋ Solids, Liquids & Gases	△ Air & Water ✦ Air, Sun, Water	△ New Plants + Living Things		See safety resource list * Positive Actions Toward Health		

Science/Health Curr	iculum – Grade 2			Revision Date: Summer 2005		
PATTERNS OF CHANGE						
Physical Science	Earth/Space Science	Life Science	Health	Safety		
The physical world is governed by the properties and interactions of matter and energy. People apply tools, skills and scientific knowledge to find, investigate and solve problems.	Earth, within the universe, is constantly changing. All parts of an environment are interrelated: therefore, changes to one part affect other parts.	Living things are diverse, interdependent, and evolving.	The human body is made up of complex systems that interact to keep an individual alive.	People make decisions that impact their safety. Living safely, preventing accidents and illness, and observing and following proper procedures during emergencies will advance through knowledge acquisition and skill development.		
 Balance & Motion Motion and balance involve changing place or position. People use objects and tools to solve problems, take measurements, conduct and record observations, and create change. Sound is an energy that originates from a vibrating source and travels through matter. Pitch depends upon the properties of sound waves. 	 Geological Changes Weathering Erosion Processes and forces cause the earth to change. Geologic changes may occur as a result of water, waves, wind or ice that erode rocks and soil in some areas while depositing them in others. 	Life Cycles • Cycles are changes that occur in predictable patterns and flow in one directions with no beginning or end.	 Healthy Living The human body has needs that must be met. People require adequate nutrition, exercise and rest in order to stay healthy. 	 <u>Safety</u> Making healthy choices and using refusal skills become tools to avoid hazards and risk behaviors. Proper procedures and skills can be learned in dressing minor cuts or wounds, as well as ways to respond to larger emergency situations. Some communicable diseases and infections can be avoided with good personal hygiene practices. Germs spread in a variety of ways. AIDS PATH * Bicycle Pedestrian Bus Personal Safety Earthquake Playground Fire 		

	Re	sources: \triangle FOSS +	 Scholastic 	
\triangle Balance & Motion \triangle The Physics of Sound + Sound	 △ Pebbles, Sand & Silt + Rocks & Soils 	△ Insects		See safety resource list * Positive Actions Toward Health

Science/Health Curr	iculum – Grade 3			Revision Date: Summer 2005			
SCALE & STRUCTURE							
Physical Science	Earth/Space Science	Life Science	Health	Safety			
The physical world is governed by the properties and interactions of matter and energy. People apply tools, skills and scientific knowledge to find, investigate and solve problems.	Earth, within the universe, is constantly changing. All parts of an environment are interrelated: therefore, changes to one part affect other parts.	Living things are diverse, interdependent, and evolving.	The human body is made up of complex systems that interact to keep an individual alive.	People make decisions that impact their safety. Living safely, preventing accidents and illness, and observing and following proper procedures during emergencies will advance through knowledge acquisition and skill development.			
	 Earth Materials / Rocks & Minerals Land is a resource that is changed by natural processes and human activities. Earth materials are changed and used for human enterprise. Rocks and minerals may be identified by their properties. Recycling Outer Space Our universe and its component parts are in constant motion. The earth's unique position in space renders it capable of supporting life. 	 Classification of Living <u>Things</u> Organisms have observable structures, behaviors, and predictable life cycles. Organisms can be grouped into 5 large kingdoms, based upon shared characteristics. 	 Bones & Muscles The human body has structures that support and move it and are integral parts of the whole body system. People make decisions that affect the health of their body. 	 Safety People recognize risk behaviors, methods of prevention, and basic refusal skills necessary to avoid dangerous or unhealthy situations. People follow emergency procedures and are aware of basic first aid to save themselves and assist others. Communicable diseases spread a variety of ways. Some communicable diseases are contagious. There is a relationship between personal hygiene and the spread of disease. People create circles of support, which grow larger and include a wider range of people, for personal well-being and acting responsibly in relation to the powers of peer pressure. AIDS PATH * 			

Re	sources: △ FOSS 4	- Scholastic	Bicycle Pedestrian Bus Personal Safety Earthquake Playground Fire
 △ Earth Materials + Using Land + Solar System 	 △ Structures of Life 	 △ Human Body ➡ Support Systems 	See safety resource list * Positive Actions Toward Health

Science/Health Curri	iculum – Grade 4			Revision Date: Summer 2005		
SYSTEMS & INTERACTIONS						
Physical Science	Earth/Space Science	Life Science	Health	Safety		
The physical world is governed by the properties and interactions of matter and energy. People apply tools, skills and scientific knowledge to find, investigate and solve problems.	Earth, within the universe, is constantly changing. All parts of an environment are interrelated: therefore, changes to one part affect other parts.	Living things are diverse, interdependent, and evolving.	The human body is made up of complex systems that interact to keep an individual alive.	People make decisions that impact their safety. Living safely, preventing accidents and illness, and observing and following proper procedures during emergencies will advance through knowledge acquisition and skill development.		
	 Water / Oceans The ocean is one global body of water with unique characteristics and resources. 	 <u>Animal / Plant</u> <u>Interactions</u> Living things are dependent upon the conditions of their environment. Interactions of living things result in a flow of matter and energy. Food web 	 Digestion, Respiratory & Circulatory Systems The digestive, respiratory and circulatory systems are integral parts of the whole body system. People make decisions that affect the health of the body. 	 Safety People plan ahead to avoid risk behavior in order to support healthy choices. Diseases are communicable and non-communicable. Some communicable diseases are difficult to get because of the body's immune system. Germs spread in a variety of ways. Safe behaviors prevent infection. Healthy choices and positive attitudes affect personal wellbeing. People follow emergency procedures and are aware of basic first aid to save themselves and assist others. Circles of support and influence grow larger and include a wider range of people. People act responsibly in relation to the powers of peer pressure and seek help to insure personal 		

			safety.
			AIDS PATH * Bicycle Pedestrian Bus Personal Safety Earthquake Playground Fire
Re	sources: 🛆 FOSS 🚽	Scholastic	
△ Water + The Ocean	 △ Environments ➔ Organisms & Environment 	△ Food & Nutrition	See safety resource list * Positive Actions Toward Health

Science/Health Curricu	ılum – Grade 5			Revision Date: Summer 2005		
PATTERNS OF CHANGE						
Physical Science	Earth/Space Science	Life Science	Health	Safety		
The physical world is governed by the properties and interactions of matter and energy. People apply tools, skills and scientific knowledge to find, investigate and solve problems.	Earth, within the universe, is constantly changing. All parts of an environment are interrelated: therefore, changes to one part affect other parts.	Living things are diverse, interdependent, and evolving.	The human body is made up of complex systems that interact to keep an individual alive.	People make decisions that impact their safety. Living safely, preventing accidents and illness, and observing and following proper procedures during emergencies will advance through knowledge acquisition and skill development.		
Energy • Light, heat, and pressure interact with matter and can be changed into other forms of energy. Science & Technology in Society • Relationships between things involve interactions and cause/effect events. Electricity & Magnetism • People have invented systems that generate, transmit and use electricity.	Landforms • Movement within the earth and physical and chemical weathering change and build land forms.	Change Over Time (Heredity & Mutation) • Environmental changes or human intervention can alter characteristics of a population that may affect succeeding generations.	 Brain & Nerves The nervous system controls many body systems and is an integral part of the human body. People make decisions that affect the health of their body. 	 Safety People plan ahead to avoid risk behavior in order to support healthy choices. People analyze risk, make decisions, and set goals for a healthy safe life. Diseases are communicable and non-communicable. Some communicable diseases are difficult to get because of the body's immune system. Germs spread in a variety of ways. Safe behaviors prevent infection. Healthy choices and positive attitudes affect personal wellbeing. People follow emergency procedures and are aware of basic first aid to save themselves and assist others. Circles of support and influence grow larger and include a wider range of people. People act 		

				responsibly in relation to the powers of peer pressure and seek help to insure personal safety.
				AIDS PATH * Bicycle Pedestrian Bus Personal Safety Earthquake Playground Fire
	Re	esources: \triangle FOSS -	Scholastic	
 △ Solar Energy + Light △ Models & Designs △ Variables △ Levers & Pulleys + How People Invent + How People Use Electricity △ Electricity & Magnetism 	△Landforms		+ Control Systems	See safety resource list * Positive Actions Toward Health