

**Grade One Science Curriculum  
2004-2005**

(HNS=History & Nature of Science, ESS=Earth & Space Sciences, PS=Physical Science, LF=Life Science)

<b>Grade/ Timeline</b>	<b>Strand/ Content</b>	<b>Sub-Strand/ Content</b>	<b>Standard/ State Standard</b>	<b>Benchmarks/ Skills</b>	<b>Activity</b>	<b>Time Frame</b>	<b>Assessment</b>
<b>Grade 1</b>	HNS	Scientific Inquiry	The student will raise <b>questions</b> about the <b>natural world</b> , make careful <b>observations</b> and seek answers.	The student will observe <b>describe, measure, compare,</b> and contrast common objects, using simple tools including but not limited to <b>ruler, thermometer and balance.</b>	<u>Inch by Inch</u> by Leo Lionni Everyday Math Unit 6 for balances and through for rulers Thermometer	Daily w/calendar	Everyday Math Checking Progress
	PS	Structure of Matter	The student will understand that objects have <b>physical properties</b>	The student will <b>describe</b> objects in terms of <b>color, size, shape, weight, texture, flexibility and attraction to magnets.</b>	Can be found & covered in Silver Burdett Chapter 5, pp. 138	2 weeks	Activity Data Sheet Parts of Chapter 5 Test
	PS	Forces of Nature	The student will understand that <b>forces can act at a distance.</b>	The student will know that <b>magnets</b> can be used to make <b>some things move without direct contact.</b> The student will know that <b>things near the Earth fall to the ground</b> unless something holds them up.	Can be found & covered in Silver Burdett Chapter 5, pp. 138	2 weeks	Activity Data Sheet Parts of Chapter 5 Test
	ESS	The Water Cycle, Weather and Climate	The student will investigate <b>weather cycles.</b>	<b>The student will observe, record and describe characteristics in daily weather and seasonal cycles.</b>	Reading series stories: <u>When the Box is Full</u> <u>Color of His Own</u> Calendar exercises	One week One week Daily	Teacher observation during charting
	ESS	The Universe	Student will recognize changes that occur in the <b>sky in a 24-hour day,</b>	<b>The student will observe and describe</b> the changes in the <b>position of the sun and the moon.</b>	Planet Unit <u>Magic School Bus Lost in Space</u> book and video	1 month	Draw a picture of waxing & waning moons and night vs. day. New & full moon. Name the nine planets.

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<b>Grade 1</b>	LS	Organisms	The student will observe plant and animal life cycles	The student will <b>observe</b> and <b>describe</b> how <b>plants and animals grow and change</b>	Chapters 1, 2, & 3 Silver Burdett Ginn Science		Draw the 3 things that plants and animals need for life.
	LS	Heredity	The student will understand that there is <b>variation</b> among individuals of one kind <b>within a population</b> .	The student will describe ways in which many <b>plants and animals</b> closely <b>resemble</b> but are not <b>identical to their parents</b> The student will <b>match adult animals and plants</b> to their <b>offspring</b> .	<u>Mother for Choco</u> , Houghton Mifflin reading series  <u>Pumpkin Pumpkin</u> , Houghton Mifflin reading series		
	LS	Flow of Matter and Energy	The student will understand that organisms have <b>basic needs</b> .	The student will know that <b>animals need air, water and food</b> and that <b>plants require air, water, nutrients and light</b> .	Chapter 3, Science series		Draw a simple picture that shows what a plant needs to grow.
	LS	Human Organism	The student will know that <b>the human body is made up of parts</b>	The student will <b>observe</b> and <b>describe</b> major parts of the <b>body</b> including, but not limited to, <b>eyes, nose, heart, skin, arms, legs and muscles</b>	Growing Healthy Health Kit <u>My Five Senses</u> reading series		Teacher observation and sheet to name body parts.
	LS	Human Organism	The student will learn that some diseases are caused by germs.	The student will know that <b>diseases</b> caused by <b>germs</b> can be <b>spread</b> from <b>person to person</b> ; the number of germs can be reduced by personal behavior.	Growing Healthy Health Kit Heart Assoc.		Show the proper ways to blow nose and wash hands.