

Second Grade Science Pacing Guide 9/2011

+	TRIMESTER 1			TRIMESTER 2			TRIMESTER 3		
Time	GLCE'S	Resources	Time	GLCE'S	Resources	Time	GLCE'S	Resources	
	<p><u>SCIENCE PROCESSES: Inquiry Analysis and Communication</u></p> <p><i>S.IA.E.1 Inquiry includes an analysis and presentation of findings that lead to future questions, research, and investigations.</i></p> <p>S.IA.02.12 Share ideas about science through purposeful conversation.</p> <p>S.IA.02.13 Communicate and present findings of observations.</p> <p>S.IA.02.14 Develop strategies and skills for information gathering and problem solving (books, internet, ask an expert, observation, investigation, technology tools).</p> <p><u>SCIENCE PROCESSES: Inquiry Process</u></p> <p><i>S.IP.E.1 Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation.</i></p> <p>S.IP.02.11 Make purposeful observation of the natural world using the appropriate senses.</p> <p>S.IP.02.12 Generate questions based on observations.</p> <p>S.IP.02.13 Plan and conduct simple investigations.</p> <p>S.IP.02.14 Manipulate simple tools</p>	AIMS Activities		<p><u>SCIENCE PROCESSES: Inquiry Analysis and Communication</u></p> <p><u>SCIENCE PROCESSES: Inquiry Process</u></p> <p><u>SCIENCE PROCESSES: Reflection and Social Implications</u></p> <p><i>*see Trimester 1 for details</i></p> <p><u>PHYSICAL SCIENCE: Properties of Matter</u></p> <p><i>P.PM.E.1 Physical Properties- All objects and substances have physical properties that can be measured.</i></p> <p>P.PM.02.12 Describe objects and substances according to their properties (color, size, shape, texture, hardness, liquid or solid, sinking or floating).</p> <p>P.PM.02.13 Measure the length of objects using rulers (centimeters) and meter sticks (meters).</p> <p>P.PM.02.14 Measure the volume of liquids using common measuring tools (measuring cups, measuring spoons).</p> <p>P.PM.02.15 Compare the weight of objects using balances.</p> <p><i>P.PM.E.4 Material Composition- Some objects are composed of a single substance, while other objects are composed of more than one substance.</i></p> <p>P.PM.02.41 Classify objects as single substances (ice, silver, sugar, salt) or mixtures (salt and pepper, mixed dry beans).</p>	1 st Grade matter kit (review of 1 st grade)		<p><u>SCIENCE PROCESSES: Inquiry Analysis and Communication</u></p> <p><u>SCIENCE PROCESSES: Inquiry Process</u></p> <p><u>SCIENCE PROCESSES: Reflection and Social Implications</u></p> <p><i>*see Trimester 1 for details</i></p> <p><u>LIFE SCIENCE: Organization of Living Things</u></p> <p><i>L.OL.E.1 Life Requirements- Organisms have basic needs. Animals and plants need air, water, and food. Plants also require light. Plants and animals use food as a source of energy and as a source of building material for growth and repair.</i></p> <p>L.OL.02.14 Identify the needs of plants.</p> <p><u>Heredity</u></p> <p><i>L.HE.E.1 Observable Characteristics- Plants and animals share many, but not all, characteristics of their parents.</i></p> <p>L.HE.02.13 Identify characteristics of plants (for example: leaf shape, flower type, color, size) that are passed on from parents to young.</p>	Harcourt Stories	

Second Grade Science Pacing Guide 9/2011

+	TRIMESTER 1		TRIMESTER 2		TRIMESTER 3	
	<p><u>EARTH SCIENCE: Solid Earth</u></p> <p><i>E.SE.E.2 Surface Changes- The surface of Earth changes. Some changes are due to slow processes, such as erosion and weathering, and some changes are due to rapid processes, such as landslides, volcanic eruptions, and earthquakes.</i></p> <p>E.SE.02.21 Describe the major landforms of the surface of the Earth (mountains, plains, plateaus, valleys, hills).</p> <p><u>Fluid Earth</u></p> <p><i>E.FE.E.1 Water- Water is a natural resource and is found under the ground, on the surface of the earth, and in the sky. It exists in three states (liquid, solid, gas) and can go back and forth from one form to another.</i></p> <p>E.FE.02.11 Identify water sources (wells, springs, lakes, rivers, oceans).</p> <p>E.FE.02.12 Identify household uses of water (drinking, cleaning, food preparation).</p> <p>E.FE.02.13 Describe the properties (visible, flowing, melting, dew) of water as a liquid (lakes, rivers, streams, oceans).</p> <p>E.FE.02.14 Describe the properties (hard, visible, freezing, ice) of water as a solid (ice, snow, iceberg, sleet, hail).</p> <p><i>E.FE.E.2 Water Movement- Water moves in predictable patterns.</i></p>	<p>Nystrom maps, atlases – only 12</p> <p>Unit 3 Lesson 2 (pg. 87)</p> <p>Nystrom Land and Water NSRC/STC Kelly</p> <p>MSB – Water Cycle Movie</p>				

Second Grade Science Pacing Guide 9/2011

+	TRIMESTER 1			TRIMESTER 2			TRIMESTER 3	
	<p>E.FE.02.21 Describe how rain collects on the surface of the Earth and flows downhill into bodies of water (streams, rivers, lakes, oceans) or into the ground.</p> <p>E.FE.02.22 Describe the major bodies of water on the Earth's surface (lakes, ponds, oceans, rivers, streams).</p>	<p>MSB Wet All Over Books Kelly</p> <p>Water Water Everywhere</p> <p>Nystrom Unit 3 Lesson 2 (pg. 89)</p> <p>Assessment Unit 3 test or activity</p>						

Second Grade Science Pacing Guide 9/2011

+	TRIMESTER 1			TRIMESTER 2			TRIMESTER 3	