

Course: 2nd grade			Designated Six Weeks: Ongoing		
Unit: Process Skills			Days to teach: Ongoing		
TEKS	Guiding Questions/ Specificity	Sample Assessment	Vocabulary	Instructional Strategies	Resources/ Weblinks

(1) Scientific investigation and reasoning. The student conducts classroom and outdoor investigations following home and school safety procedures.

<p>2. 1(A) identify and demonstrate safe practices as described in the Texas Safety Standards during classroom and outdoor investigations, including wearing safety goggles, washing hands, and using materials appropriately;</p> <p>2.1 (B) describe the importance of safe practices; and</p> <p>2.1 (C) identify and demonstrate how to use, conserve, and dispose of natural resources and materials such as conserving water and reuse or recycling of paper, plastic, and metal.</p>	<p>Why do we need to be careful when we are doing classroom or outdoor investigations? We need to be aware of our surroundings, allergies, and following the teacher's instructions.</p>	<p>2nd grade Curriculum Check</p> <p>Sample Questions</p> <p>1. Which of these activities in a lab should a student NOT do? a. run around b. follow directions c. wash your hands when you are finished.</p>	<p>Safety Natural resources Recycle Re-use</p>	<p>Examples of Instructional Strategies Journals/Blogs Learning Centers Cooperative Learning Discovery Learning Problem Based * Inquiry Learning</p> <p>Link to the ELPS Strategies: http://ritter.tea.state.tx.us/rules/tac/chapter074/ch074a.html 2F – Visuals/Video 4F – Vis. Lit. Frames 3F-Instructional Conversation 1C- Word Walls 2G- Journals</p>	<p>Simple Science CD 2nd grade Folders</p> <p>Harcourt Science Textbook Grade 2: *16</p> <p>MISD Teacher Wiki: www.misd4science.pbworks.com</p>
---	---	---	--	---	---

(2) Scientific investigation and reasoning. The student develops abilities necessary to do scientific inquiry in classroom and outdoor investigations.

<p>2.2 (A) ask questions about organisms, objects, and events during observations and investigations;</p> <p>2.2 (B) plan and conduct descriptive investigations such as how organisms grow;</p> <p>2.2 (C) collect data from</p>	<p>How do we organize our thoughts, information, connections, and other data? We can organize our thoughts in data tables, notes, journaling, etc.</p>	<p>2nd grade Curriculum Check</p> <p>Sample Questions</p> <p>1. You are observing a bean plan as it grows. You notice the the bean seed has cracked.</p>	<p>Thermometer Investigation</p>	<p>Examples of Instructional Strategies Problem Based* Inquiry Learning Demonstration Journal/Blogs Student Generated Questions Discussion</p>	<p>Simple Science CD 2nd grade Folders</p> <p>Harcourt Science Textbook Grade 2: R2-3</p> <p>MISD Teacher Wiki: www.misd4science.pbworks.com</p>
---	---	--	--------------------------------------	---	--

Course: 2 nd grade			Designated Six Weeks: Ongoing		
Unit: Process Skills			Days to teach: Ongoing		
TEKS	Guiding Questions/ Specificity	Sample Assessment	Vocabulary	Instructional Strategies	Resources/ Weblinks
<p>observations using simple equipment such as hand lenses, primary balances, thermometers, and non-standard measurement tools;</p> <p>2.2 (D) record and organize data using pictures, numbers, and words;</p> <p>2.2 (E) communicate observations and justify explanations using student-generated data from simple descriptive investigations; and</p> <p>2.2 (F) compare results of investigations with what students and scientists know about the world.</p>		<p>What would you expect to see next?</p> <p>a. the bean plant will die.</p> <p>b. nothing will happen.</p> <p>c. the bean will sprout.</p>		<p>Discovery Learning Predicting Simulations</p> <p><u>Link to the ELPS Strategies</u> http://ritter.tea.state.tx.us/rules/tac/chapter074/ch074a.html</p> <p>2F – Visuals/Video 4F – Vis. Lit. Frames 1C- Word Walls 2E- Think Alouds 2G- Journals 4I- Draw and Write</p>	
<p>(3) Scientific investigation and reasoning. The student knows that information and critical thinking, scientific problem solving, and the contributions of scientists are used in making decisions.</p>					
<p>2.3 (A) identify and explain a problem in his/her own words and propose a task and solution for the problem such as lack of water in a habitat;</p> <p>2.3 (B) make predictions based on observable patterns; and</p> <p>2.3 (C) identify what a scientist is and explore what different scientists do.</p>	<p>What skills and tools do we use as scientists?</p> <p>We use a variety of science tools to measure and record data from our activities.</p>	<p><u>2nd grade Curriculum Check</u></p> <p>Sample Questions</p> <p>1. What can you use to help predict the weather?</p> <p>2. What does a biologist study?</p>	<p>Predict Habitat</p>	<p><u>Examples of Instructional Strategies</u></p> <p>Activating Prior Knowledge Discovery Learning Predictions Personal Connections Cooperative Learning Journal/Blogs Student Generated Questions</p> <p><u>Link to the ELPS Strategies</u> http://ritter.tea.state.tx.us/r</p>	<p><u>Simple Science CD</u> 2nd grade Folders</p> <p><u>Harcourt Science Textbook Grade 2:</u> * 10- *15</p> <p><u>MISD Teacher Wiki:</u> www.misd4science.pbworks.com</p> <p><u>Safari Montage</u> Science as Inquiry for Children</p> <p><u>Promethean Planet</u> Scientific Method</p>

Course: 2 nd grade			Designated Six Weeks: Ongoing		
Unit: Process Skills			Days to teach: Ongoing		
TEKS	Guiding Questions/ Specificity	Sample Assessment	Vocabulary	Instructional Strategies	Resources/ Weblinks
				les/tac/chapter074/ch074a.html 2F – Visuals/Video 3F-Instructional Conversation 1C- Word Walls 2E- Think Alouds 2G- Journals 4I- Draw and Write 3B- List/ Sort/Label	
(4) Scientific investigation and reasoning. The student uses age-appropriate tools and models to investigate the natural world.					
2.4 (A) collect, record, and compare information using tools, including computers, hand lenses, rulers, primary balances, plastic beakers, magnets, collecting nets, notebooks, and safety goggles; timing devices, including clocks and stopwatches; weather instruments such as thermometers, wind vanes, and rain gauges; and materials to support observations of habitats of organisms such as terrariums and aquariums; and 2.4 (B) measure and compare organisms and objects using non-standard units that approximate metric units.	Science is an ongoing cycle of questioning and problem solving	2nd grade Curriculum Check Sample Questions 1. What tool would be best used identify matter as a metal? a. magnet b. pan balance c. plastic beaker	Wind vane Rain gauge	Examples of Instructional Strategies Discovery Learning Demonstration Journals/Blogs Learning Centers Reading Symbols Link to the ELPS Strategies: http://ritter.tea.state.tx.us/ru/les/tac/chapter074/ch074a.html 3F-Instructional conversation 1C- Word Walls 2G- Journals 4I- Draw and Write 3B- List/ Sort/Label	Simple Science CD 2 nd grade Folders Harcourt Science Textbook Grade 2: R 4-10 MISD Teacher Wiki: www.misd4science.pbworks.com