

## GRADE 7 - NATURAL SCIENCE

### GRADE 7 (YEAR)

OBJECTIVES	APPROACH	EVALUATION/ASSESSMENT	RESOURCES
<b>Unit: Basic Science Skills</b>		A variety of interdisciplinary projects, covering the objectives.	
<p>Identify lab equipment.</p> <p>Define the proper use and care of lab equipment.</p> <p>Describe lab safety.</p>	<p>Discussion/lecture on laboratory equipment and guidelines/procedures for safety skills.</p> <p><u>Student Activities:</u> Small group, hands-on laboratory investigations (ex. practice using and identifying lab equipment).</p> <p>Teacher-generated worksheets and student studyguides on lab equipment and safety.</p>	<p>Jeopardy quizzes.</p> <p>Teacher observations during lab. investigations.</p> <p>Group presentations to the class.</p>	<p>Resource text: <i>Life Science The Challenge Of Discovery</i>, L. Bierer et. al. Chapter 1, pp.10-30.</p> <p><i>Life Science: The Challenge of Discovery Study Guide</i> Worksheet, p. 9.</p> <p><i>Life Science: The Challenge of Discovery Laboratory Manual</i> Worksheet, pp. 1-12.</p> <p>Science World Magazines.</p> <p>Teacher-generated handouts.</p>
<p>Distinguish between length, mass, volume, temperature and time.</p> <p>Calculate measurements in metric units.</p>	<p>Discussion/lecture on metric system and differences between types of measurements.</p> <p>Cooperative/hands-on group lab investigations (ex. Gum Elastics lab, teacher-generated measurement labs).</p> <p>Worksheets and student studyguides on measurements and metric system.</p>	<p>Jeopardy quizzes.</p> <p>Teacher observations during lab. investigations.</p> <p>Group presentations to the class.</p> <p>Laboratory write-ups.</p>	<p>Resource text: Ch. 1, pp. 22-25, Activity 1.4.</p> <p>Study Guide Worksheet: p. 4.</p> <p>Science World Magazines.</p> <p><i>Science Mind Stretchers</i>, I. Forte &amp; S. Schurr, pp. 51-54.</p> <p>Teacher-created handouts.</p>
<p>Identify the steps in the scientific process.</p> <p>Record and describe observations accurately.</p> <p>Formulate a hypothesis.</p> <p>Assemble and analyze data and research.</p>	<p>Discussion/lecture on scientific process (observations, formulate hypotheses, design a procedure, collect and analyze data, evaluate results, formulate conclusion, report results).</p> <p>Cooperative group work.</p>	<p>Jeopardy quizzes.</p> <p>Teacher observations during lab. investigations.</p> <p>Group presentations to the class.</p> <p>Laboratory write-ups.</p>	<p>Resource text: Ch. 1, pp. 14-20.</p> <p>Science World Magazines.</p> <p><i>Oobleck</i>, LHS GEMS.</p> <p><i>Paper Towel Testing</i>, LHS GEMS.</p>