

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