

**Subject Area** SCIENCE

Rationale: The primary task of science education is to foster students' curiosity to investigate the natural phenomena of their world. Students will develop confidence in their ability to use scientific concepts and principles to understand and control real-world situations. In preparation for careers and life choices, students must comprehend the impact of science and technology on the individual, society, and culture.

**Course/Grade Level** ADVANCED PLACEMENT BIOLOGY LAB: This course will approach important biological concepts on advanced levels with special emphasis on current topics in biology. The scientific method of investigations will be studied to help students develop skills in experimental design, hypothesis formation, data collection, interpretation of statistical data, and developing logical conclusions from experimentation.

**Content Standard or Content Strand** SC 7: Processes of scientific inquiry (such as formulating and testing hypotheses)

ALIGN- MENT  OBJ. 1	I.S. *	MEASUREABLE LEARNER OBJECTIVE	LEARNER ACTIVITIES The student will:	ASSESSMENT OF OBJECTIVE Mastery Level Noted for each assessment
GLE IN.1.B.LAB  CONTENT SC7  PROCESS 1.2, 4.7, 4.1		Utilize appropriate laboratory tools, techniques and safety procedures.	<ul style="list-style-type: none"> <li>• Identify lab equipment from a set of pictures.</li> <li>• Take a test over safety procedures. Stations will be set up that require the student to evaluate the situation and respond in constructive response format.</li> <li>• Interpret Latin prefixes and suffixes</li> <li>• Construct, graphs from a lab packet given data and extrapolate and infer results.</li> <li>• Define the parts of the scientific method in a given situation.</li> <li>• Answer practice ACT science reasoning questions and learn strategies</li> <li>• worksheets</li> </ul>	<ul style="list-style-type: none"> <li>• Safety Station Test (Summative)</li> <li>• Lab packet-teacher graded</li> <li>• worksheet over scientific method-teacher graded</li> <li>• Problem of the Day Notebooks (ACT and much more)</li> </ul>
		<b>INSTRUCTIONAL METHODS</b> The teacher will: Labs, Power Point Presentations, Mathematical Problems, Graphs, Experiments, Discussion Questions	<b>RESOURCES:</b> <b>Microscopes, Lab Equipment, Technology, Safety Equipment, and Lab Space</b>	
<b>*I.S. = INTEGRATED SKILLS: GE-gender equity RE-racial/ethnic equity DE-disability awareness T-technology RS-research/information-seeking skills WR-workplace readiness</b>				