

## CURRICULAR AREA – SCIENCE

### COURSES – BIOTECHNOLOGY, BIOTECHNOLOGY ACCELERATED & LAB RESEARCH

#### FINAL COURSE MARK DETERMINATION COMPONENTS

AREA OF EVALUATION	DESCRIPTORS OF AREA	PERCENTAGE OF FINAL COURSE MARK
<b>Assessments</b> Including tests, quizzes, projects, labs, practicals and other products	<b>UNIT TESTS AND QUIZZES</b> <b>Purpose</b> <ul style="list-style-type: none"><li>• Assess mastery of course content and skill acquisition</li><li>• Assess critical thinking</li><li>• Assess organizational and investigative skills</li><li>• Assess ability to analyze data</li></ul> <b>Frequency</b> <ul style="list-style-type: none"><li>• Quizzes – 1 or more per unit</li><li>• Tests - 1 per unit</li></ul> <b>Feedback</b> <ul style="list-style-type: none"><li>• Score based upon science rubric and key</li><li>• Written comments and/or oral review by teacher and students as necessary, both by teacher and students</li><li>• Student correction of wrong answers</li></ul> <b>Learning Domains Emphasized:</b> <ul style="list-style-type: none"><li>• Understanding, application, analysis, and synthesis</li></ul> <b>PROJECTS, PRESENTATIONS OTHER PRODUCTS</b> <b>Purpose</b> <ul style="list-style-type: none"><li>• Reinforce knowledge and expand understanding of biotechnology concepts</li><li>• Enrich content area</li><li>• Acquisition of research skills</li><li>• Acquisition of presentation skills</li><li>• Synthesis of varied concepts</li></ul>	<b>65-75%</b>

	<p>and content knowledge into a unified presentation</p> <ul style="list-style-type: none"> <li>• Provide for varied educational opportunities that build on different learning styles</li> <li>• Provide opportunity to make connections between subject matter and real world</li> </ul> <p><b>Frequency</b></p> <ul style="list-style-type: none"> <li>• 1-2 per semester</li> </ul> <p><b>Feedback</b></p> <ul style="list-style-type: none"> <li>• Assessed and scored by teacher</li> <li>• Discussion/review of presentation</li> </ul> <p><b>Learning Domains Emphasized</b></p> <ul style="list-style-type: none"> <li>• Knowledge, understanding, application , analysis and synthesis</li> </ul> <hr/> <p><b>LABORATORIES</b></p> <p><b>Purpose</b></p> <ul style="list-style-type: none"> <li>• Acquisition of investigative skills using scientific method</li> <li>• Support conceptual learning</li> <li>• Practice for mastery of lab skills</li> <li>• Practice collecting and organizing data</li> <li>• Critical thinking, data analysis, drawing logical conclusions</li> </ul> <p><b>Frequency</b></p> <ul style="list-style-type: none"> <li>• Once per unit</li> </ul> <p><b>Feedback</b></p> <ul style="list-style-type: none"> <li>• Discussion of labs by teachers and students</li> <li>• Solutions reviewed and discussed</li> </ul> <p><b>Learning Domains Emphasized</b></p> <ul style="list-style-type: none"> <li>• Knowledge, understanding, application, analysis and synthesis</li> </ul>	
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<b>Coursework</b> Including class work and homework	<b>Purpose</b> <ul style="list-style-type: none"> <li>• Reinforce knowledge and expand understanding of biotechnology concepts</li> <li>• Preview and preparation for laboratory activities</li> <li>• Expand understanding and use of subject vocabulary</li> </ul> <b>Frequency</b> <ul style="list-style-type: none"> <li>• 1-5 per unit/ or as needed</li> </ul> <b>Feedback</b> <ul style="list-style-type: none"> <li>• Corrections made</li> <li>• Discussion/review of work</li> <li>• Work reviewed and discussed</li> </ul> <b>Learning Domains Emphasized</b> <ul style="list-style-type: none"> <li>• Knowledge, understanding, application and analysis</li> </ul>	<b>10-20%</b>
<b>Final Examination</b>	<b>Purpose</b> <ul style="list-style-type: none"> <li>• Culminating assessment of global content concepts learned through the semester in biotechnology</li> </ul> <b>Frequency</b> <ul style="list-style-type: none"> <li>• End of each semester</li> </ul> <b>Feedback</b> <ul style="list-style-type: none"> <li>• Score based upon science rubric and key</li> <li>• Written comments and/or oral review by teacher and students as necessary, both by teacher and students</li> </ul> <b>Learning Domains Emphasized:</b> <ul style="list-style-type: none"> <li>• Understanding, application, analysis, and synthesis</li> </ul>	<b>10-20%</b>
<b>Total = 100%</b>		