

Merrimack School District  
Essential Learning Competencies

School	Merrimack High School
Discipline	Science
Course Title	Topics in Life Science

Quarter 1

Essential Learning Competencies	Links to the Rubrics/Standards/Competency	Formative Assessments	Summative Assessments
1. Students will understand the study of life and the scientific method.	Scientific Process	<ul style="list-style-type: none"> <li>• Characteristics of life activity</li> <li>• Experimental design lab</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz/Exam</li> </ul>
2. Students will understand components of the biosphere and that energy is required to cycle material through living and non-living systems.	Ecology	<ul style="list-style-type: none"> <li>• Vocabulary activity</li> <li>• Food chain and food web activity</li> <li>• Cycling of matter visual/activity</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz/Exam or Project</li> </ul>
3. Students will understand that limiting factors and ranges of tolerance are factors that determine where terrestrial and aquatic ecosystems exist.	Ecology	<ul style="list-style-type: none"> <li>• Graphing activities</li> <li>• Biome project</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz/Exam or Project</li> </ul>
4. Students will understand that population growth is a critical factor	Ecology	<ul style="list-style-type: none"> <li>• Vocabulary activity</li> <li>• Graphing activities</li> </ul>	<ul style="list-style-type: none"> <li>• Interpretation of graphs/quiz/test</li> </ul>

in a species' ability to maintain homeostasis with its environment.			
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Quarter 2

Essential Learning Competencies	Links to the Rubrics/Standards/Competency	Formative Assessments	Summative Assessments
1.			
2.			
3.			
4.			
5.			
6.			

Quarter 3

Essential Learning Competencies	Links to the Rubrics/Standards/Competency	Formative Assessments	Summative Assessments
1.			
2.			
3.			
4.			
5.			
6.			

Quarter 4

Essential Learning Competencies	Links to the Rubrics/Standards/Competency	Formative Assessments	Summative Assessments
1.			
2.			
3.			
4.			
5.			
6.			