

Merrimack School District
Essential Learning Competencies

School	Merrimack High School
Discipline	Science
Course Title	Biology

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	• Characteristics of life activity • Experimental design lab	• Quiz/Exam
2. Students will understand components of the biosphere and that energy is required to cycle material through living and non-living systems.	Ecology	• Vocabulary activity • Food chain and food web activity • Cycling of matter visual/activity	• Quiz/Exam or Project
3. Students will understand that limiting factors and ranges of tolerance are factors that determine where terrestrial and aquatic ecosystems exist.	Ecology	• Graphing activities • Biome project	• Quiz/Exam or Project
4. Students will understand that population growth is a critical factor	Ecology	• Vocabulary activity • Graphing activities	• Interpretation of graphs/quiz/test

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.			