

Merrimack School District  
Essential Learning Competencies

School	MHS
Discipline	Science
Course Title	Earth and Space Science

Quarter 1

Essential Learning Competencies	Links to the Rubrics/Standards/Competency	Formative Assessments	Summative Assessments
1. Students will be able to identify how solubility and atomic structure effect mineral formation and the properties of minerals.		<ul style="list-style-type: none"> <li>• Quizzes</li> <li>• Atomic Structure and Flame Test lab/demo</li> <li>• Solubility and crystal growth lab/demo</li> <li>• Worksheets</li> <li>• Book Notes</li> <li>• Videos</li> <li>• Demos</li> </ul>	<ul style="list-style-type: none"> <li>• Written assessment</li> </ul>
2. Students will be able to classify minerals based on their properties and how they are formed.		<ul style="list-style-type: none"> <li>• Quizzes</li> <li>• Mineral ID Lab/demo</li> <li>• Crystal Shape Lab/demo</li> <li>• Worksheets</li> <li>• Book Notes</li> <li>• Videos</li> <li>• Demos</li> </ul>	<ul style="list-style-type: none"> <li>• Written Assessment</li> <li>• Mineral Project</li> </ul>
3. Students will be able to classify igneous rocks based on their properties and how they are formed. Students will be able to identify uses of igneous rocks.		<ul style="list-style-type: none"> <li>• Quizzes</li> <li>• Igneous rock ID lab/demo</li> <li>• Bowen's reaction series lab/demo</li> <li>• Volcano shape lab/demo</li> <li>• Worksheets</li> <li>• Book Notes</li> <li>• Videos</li> <li>• Demos</li> </ul>	<ul style="list-style-type: none"> <li>• Written assessment</li> </ul>
4. Students will be able to identify sedimentary and metamorphic rocks based on their properties and how they are formed. Students will be able to identify uses of sedimentary and metamorphic rocks.		<ul style="list-style-type: none"> <li>• Quizzes</li> <li>• Sedimentary rock ID lab/demo</li> <li>• Metamorphic ID lab/demo</li> <li>• Bits and Pieces labs</li> <li>• Worksheets</li> <li>• Book Notes</li> <li>• Videos</li> <li>• Demos</li> </ul>	<ul style="list-style-type: none"> <li>• Written assessment</li> </ul>

5.			
6.			

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.			