Merrimack School District
Essential Learning Competencies

School	Merrimack High School
Discipline	Technology
Course Title	3D Modeling and Animation

Quarter 1

Essential Learning Competencies	Links to the Rubrics/Standards/ Competency	Formative Assessments	Summative Assessments
1.Exploring the current and projected future industry in 3D Modeling, Animation, Visual and Special Effects	Industry jobs	Class/Individual Discussions	Review Essay
2. Maya's Interface overview of basic operations	Install Maya free for home usage, Menus, Status Line, Shelf, Sidebar icons, View panel, Channel Box, Attributes Editor, Layer Editor, Tool Box, Time Slider, Range Slider, Playback controls, Anim/Character menus	Student Observation

Reflection of understanding basic operations | Quiz |

3. Maya's Modeling Techniques	Polygon modeling selection and creation, Polygon component display, Editing Polygons, Coloring and texturing Polygons, Texturing using UVs, Using numerous modeling techniques ie.Extruding, circularize tool etc. located on Canvas(too numerous to mention here)	Mini Assignments Student Observation Student Review of Tools	Checklist completion and Proficiency of utilizing standards in student projects
4. Maya's Animation Techniques	Keyframe animation, Driven key animation, Nonlinear animation, Path animation, Motion capture animation, Layered animation, Dynamic animation, Animation Rotation using Channel Box and Customize the timing with the Time Slider	Mini Assignments Student Observation Student Review of Tools	Checklist completion and Proficiency of utilizing standards in student projects
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.			