

Name: Gagnon		Grading Quarter: Q3	Week Beginning: 1/15 W2
School Year: 2024		Subject: Fab Lab	
Monday	Notes:  Teachers only	<p>Objective: Science and Engineering Practices: Students will understand the use of Inkscape, an open-source graphic design program as evidenced by creating and printing a bumper sticker following classroom conventions for the project.</p> <ul style="list-style-type: none"> <li>Students will use Inkscape to complete the bumper sticker project.</li> <li>Intro to Inkscape and demonstration.</li> </ul>	<p>Academic Standards:</p> <p><b>Arizona Science Standards Appendix 5 Technology Next generation science standards Engineering (4-ETS1-1):</b></p>
Tuesday	Notes:	<p>Objective: Science and Engineering Practices: Students will understand the use of Inkscape, an open-source graphic design program as evidenced by creating and printing a bumper sticker following classroom conventions for the project.</p> <ul style="list-style-type: none"> <li>Students will use Inkscape to complete the bumper sticker project.</li> </ul>	<p>Academic Standards:</p> <p><b>Arizona Science Standards Appendix 5 Technology Next generation science standards Engineering (4-ETS1-1):</b></p>
Wednesday	Notes:	<p>Objective: Science and Engineering Practices: Students will understand the use of Inkscape, an open-source graphic design program as evidenced by creating and printing a bumper sticker following classroom conventions for the project.</p> <ul style="list-style-type: none"> <li>Students will use Inkscape to complete the bumper sticker project.</li> <li>Completing and turning in their design as a PDF</li> </ul>	<p>Academic Standards:</p> <p><b>Arizona Science Standards Appendix 5 Technology Next generation science standards Engineering (4-ETS1-1):</b></p>
Thursday	Notes:	<p>Objective: Science and Engineering Practices: Students will understand the use of Inkscape, an open-source graphic design program as evidenced by creating and printing a bumper sticker following classroom conventions for the project.</p> <ul style="list-style-type: none"> <li>Students will use Inkscape to complete the bumper sticker project.</li> <li>Students will use the Roland printer to print their bumper stickers.</li> </ul>	<p>Academic Standards:</p> <p><b>Arizona Science Standards Appendix 5 Technology Next generation science standards Engineering (4-ETS1-1):</b></p>
Friday	Notes:	<p>Objective: Science and Engineering Practices: Students will understand the use of Inkscape, an open-source graphic design program as evidenced by creating and printing a bumper sticker following classroom conventions for the project.</p> <ul style="list-style-type: none"> <li>Students will use Inkscape to complete the bumper sticker project.</li> <li>Students will use the Roland printer to print their bumper stickers.</li> </ul>	<p>Academic Standards:</p> <p><b>Arizona Science Standards Appendix 5 Technology Next generation science standards Engineering (4-ETS1-1):</b></p>

Name: Gagnon		Grading Quarter: Q3	Week Beginning: 1/22 W3
School Year: 2023-2024		Subject: Fab Lab	
Monday	Notes:	<p>Objective: Science and Engineering Practices: Students will understand the use of Tinkercad, and Ultimaker Cura open-source CAD design and slicing program shown by creating and 3D printing a Key Fob following classroom discussions and instructions for the project.</p> <ul style="list-style-type: none"> <li>Students will use Tinkercad to complete an original design of a 3D printed 3D Key fob project.</li> <li>Intro to Tinkercad, Cura and 3D printing demonstration.</li> </ul>	<p>Academic Standards: <b>HS-ETS1-4</b></p> <p>Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.</p>
Tuesday	Notes:	<p>Objective: Science and Engineering Practices: Students will understand the use of Tinkercad, and Ultimaker Cura open-source CAD design and slicing program shown by creating and 3D printing a Key Fob following classroom discussions and instructions for the project.</p> <ul style="list-style-type: none"> <li>Students will use Tinkercad to complete an original design of a 3D printed 3D Key fob project.</li> <li>Intro to Tinkercad, Cura and 3D printing demonstration.</li> </ul>	<p>Academic Standards: <b>HS-ETS1-4</b></p> <p>Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.</p>
Wednesday	Notes:	<p>Objective: Science and Engineering Practices: Students will understand the use of Tinkercad, and Ultimaker Cura open-source CAD design and slicing program shown by creating and 3D printing a Key Fob following classroom discussions and instructions for the project.</p> <ul style="list-style-type: none"> <li>Students will use Tinkercad to complete an original design of a 3D printed 3D Key fob project.</li> <li>Intro to Tinkercad, Cura and 3D printing demonstration.</li> <li>Intro to operating 3D Printers Ultimaker 2Go.</li> </ul>	<p>Academic Standards: <b>HS-ETS1-4</b></p> <p>Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.</p>
Thursday	Notes:	<p>Objective: Science and Engineering Practices: Students will understand the use of Tinkercad, and Ultimaker Cura open-source CAD design and slicing program shown by creating and 3D printing a Key Fob following classroom discussions and instructions for the project.</p> <ul style="list-style-type: none"> <li>Students will use Tinkercad to complete an original design of a 3D printed 3D Key fob project.</li> <li>Intro to Tinkercad, Cura and 3D printing demonstration.</li> <li>Intro to operating 3D Printers Ultimaker 2Go.</li> </ul>	<p>Academic Standards: <b>HS-ETS1-4</b></p> <p>Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.</p>
Friday	Notes:	<p>Objective: Science and Engineering Practices: Students will understand the use of Tinkercad, and Ultimaker Cura open-source CAD design and slicing program shown by creating and 3D printing a Key Fob following classroom discussions and instructions for the project.</p> <ul style="list-style-type: none"> <li>Students will use Tinkercad to complete an original design of a 3D printed 3D Key fob project.</li> <li>Intro to Tinkercad, Cura and 3D printing demonstration.</li> <li>Intro to operating 3D Printers Ultimaker 2Go.</li> </ul>	<p>Academic Standards: <b>HS-ETS1-4</b></p> <p>Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.</p>

Name: Gagnon		Grading Quarter: Q3	Week Beginning: 1/23 W4
School Year: 2024		Subject: Fab Lab	
Monday	Notes:  Teachers only	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
Tuesday	Notes:	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
Wednesday	Notes:	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
Thursday	Notes:	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
Friday	Notes:	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.

Name: Gagnon		Grading Quarter: Q1	Week Beginning: 2/5 W5
School Year: 2024		Subject: Fab Lab	
Monday	Notes:  Teachers only	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. This is a two-week project. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
Tuesday	Notes:	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. This is a two-week project. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
Wednesday	Notes:	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. This is a two-week project.  Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
Thursday	Notes:	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. This is a two-week project. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
Friday	Notes:	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. Due date. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.

Name: Gagnon		Grading Quarter: Q3	Week Beginning: 2/12 W6
School Year: 2024		Subject: Fab Lab	
Monday	Notes:  Teachers only	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. This is a two-week project. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
Tuesday	Notes:	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. This is a two-week project. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
Wednesday	Notes:	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. This is a two-week project. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
Thursday	Notes:	Objective: Science and Engineering Practices: Students will understand the use of Inkscape Bezier tool and the use of a laser cutter to make vector cuts as evidenced by creating a 3D model of their dream home design. This is a two-week project. Students will use Inkscape Bezier tool to complete an original design of a 3D model of their dream home. Intro to Tinkercad, Cura and 3D printing demonstration.	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
Friday	Notes:	<ul style="list-style-type: none"> <li>NO SCHOOL</li> </ul>	Academic Standards: <b>HS-ETS1-4</b> Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.

Name: Gagnon		Grading Quarter: Q3	Week Beginning: W7
School Year: 2024		Subject: Fab Lab	
Monday	Notes:	<ul style="list-style-type: none"> <li>President's Day No School</li> </ul>	
Tuesday	Notes:	<p><b>Objective:</b> Science and Engineering Practices: Students will understand the use of Inkscape and GIMP photo editing, scale, aspect ratio and cropping including the use the laser raster function to print a photo on paper evidenced by creating laser photo project. This is a two-week project. This is s two-week project.</p> <p><b>Lesson Overview:</b></p> <ul style="list-style-type: none"> <li>Students' demonstration including photo editing in Inkscape.</li> <li>Completion of all projects for this quarter.</li> </ul>	<p>Academic Standards: <b>HS-ETS1-4</b></p> <p>Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.</p>
Wednesday	Notes:	<p><b>Objective:</b> Science and Engineering Practices: Students will understand the use of Inkscape and GIMP photo editing, scale, aspect ratio and cropping including the use the laser raster function to print a photo on paper evidenced by creating laser photo project. This is a two-week project. This is s two-week project.</p> <p><b>Lesson Overview:</b></p> <ul style="list-style-type: none"> <li>Students' demonstration including photo editing in Inkscape.</li> <li>Completion of all projects for this quarter.</li> </ul>	<p>Academic Standards: <b>HS-ETS1-4</b></p> <p>Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.</p>
Thursday	Notes:	<p><b>Objective:</b> Science and Engineering Practices: Students will understand the use of Inkscape and GIMP photo editing, scale, aspect ratio and cropping including the use the laser raster function to print a photo on paper evidenced by creating laser photo project. This is a two-week project. This is s two-week project.</p> <p><b>Lesson Overview:</b></p> <ul style="list-style-type: none"> <li>Students' demonstration including photo editing in Inkscape.</li> <li>Completion of all projects for this quarter.</li> </ul>	<p>Academic Standards: <b>HS-ETS1-4</b></p> <p>Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.</p>
Friday	Notes:	<p><b>Objective:</b> Science and Engineering Practices: Students will understand the use of Inkscape and GIMP photo editing, scale, aspect ratio and cropping including the use the laser raster function to print a photo on paper evidenced by creating laser photo project. This is a two-week project. This is s two-week project.</p> <p><b>Lesson Overview:</b></p> <ul style="list-style-type: none"> <li>Students' demonstration including photo editing in Inkscape.</li> <li>Completion of all projects for this quarter..</li> </ul>	<p>Academic Standards: <b>HS-ETS1-4</b></p> <p>Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.</p>