

## 8<sup>th</sup> Grade

### Students Will Know/ Students Will Be Able To...

<b>Report Card Skill:</b> - -Create original works as a means of personal or group expression.	
<b>For this skill, students will know:</b> <ul style="list-style-type: none"> <li>• Audacity – audio program</li> </ul>	<b>For this skill, students will be able to:</b> <ul style="list-style-type: none"> <li>• Create their own designs in 3D for printing on a 3D printer</li> <li>• Compose a recording including voice/music/effects</li> </ul>
<b>Report Card Skill:</b> -- -Identify create and use files in various formats	
<b>For this skill, students will know:</b> <ul style="list-style-type: none"> <li>• Adobe suite of products including Photoshop and Flash</li> </ul>	<b>For this skill, students will be able to:</b> <ul style="list-style-type: none"> <li>• Sketch and Complete animations in flash</li> <li>• Design new pictures and effects using photoshop</li> </ul>
<b>Report Card Skill:</b> - Plan and manage activities to develop a solution, design a computer program, or complete a project	
<b>For this skill, students will know:</b> <ul style="list-style-type: none"> <li>• How to use the SIK circuit boards</li> </ul>	<b>For this skill, students will be able to:</b> <ul style="list-style-type: none"> <li>• Construct a circuit</li> <li>• Test the results</li> <li>• Diagnose problems</li> <li>• Design a solution</li> </ul>
<b>Report Card Skill:</b> -Create original products by using digital resources, tools, and formats.	
<b>For this skill, students will know:</b> <ul style="list-style-type: none"> <li>• Tinkercad- 3D design software</li> </ul>	<b>For this skill, students will be able to:</b> <ul style="list-style-type: none"> <li>• Create their own designs in 3D for printing on a 3D printer</li> </ul>

**Report Card Skill:** - Apply safe and ethical behaviors in personal electronic communication and interaction.

**For this skill, students will know:**

- The safe responsible legal and ethical behavior using technology tools

**For this skill, students will be able to:**

- Practice ethical acquisition of information
- Exercise safe online behavior
- Demonstrate appropriate use of email

**Report Card Skill:** - Collaborate with others to exchange ideas, develop new understandings, make decisions, and solve problems

**For this skill, students will know:**

- the engineering design process: identify, research, develop, plan, create, test, improve

**For this skill, students will be able to:**

- complete circuits and manipulate variables for various outcomes