

## Innovation Definition and Outcomes

*Draft June 2017*

***Innovating is recognizing the opportunity for improvement and creating solutions to add value.***

<b>UNDERSTANDING</b> <i>Students will understand...</i>	<b>ABILITIES AND SKILLS</b> <i>Students will be able to...</i>	<b>DISPOSITIONS</b> <i>Students will be...</i>
<p>1. Students will understand core information and concepts:</p> <ul style="list-style-type: none"> <li>● specify problem parameters</li> <li>● describe needs and wants of target audience</li> <li>● evaluate alternatives and suggest solutions</li> <li>● know the vocabulary and language of the disciplines</li> </ul> <p>2. Students will understand the innovation process and vocabulary:</p> <ul style="list-style-type: none"> <li>● explain the innovation process and vocabulary (e.g. ask, imagine, plan, create, improve; fluency, flexibility, elaboration, constraints)</li> <li>● select appropriate thinking strategies for specific tasks(e.g. associative thinking, integrative thinking)</li> </ul>	<p>3. Students will be able to use a <u>design thinking</u> process:</p> <ul style="list-style-type: none"> <li>● ask questions to understand</li> <li>● brainstorm and incubate ideas</li> <li>● plan and design</li> <li>● create, tinker and apply a design</li> <li>● reflect and analyze</li> <li>● revise</li> </ul> <p>4. Students will be able to collaborate:</p> <ul style="list-style-type: none"> <li>● listen to and consider others' ideas</li> <li>● work towards a common goal</li> <li>● be flexible and compromise</li> <li>● handle discord responsibly</li> </ul>	<p>5. Students will be risk takers:</p> <ul style="list-style-type: none"> <li>● see failure as a learning opportunity</li> <li>● show willingness to be wrong</li> <li>● bounce back when wrong or after failure</li> <li>● take a risk to move outside of comfort zone, without fear</li> <li>● willing to face discomfort</li> </ul> <p>6. Students will be creative:</p> <ul style="list-style-type: none"> <li>● generate original or novel ideas</li> <li>● improve upon/transform a product, process</li> <li>● identify new ways to approach a problem, need or process`</li> </ul> <p>7. Students will be open-minded:</p> <ul style="list-style-type: none"> <li>● actively listen to various perspectives</li> <li>● willing to change one's mind or opinion</li> <li>● look for alternate or opposing views to better understand</li> <li>● willing to accept others' opinions rather than judge them</li> <li>● seek knowledge</li> <li>● flex decision making based on information and perspectives</li> </ul> <p>8. Students will persevere/show grit:</p> <ul style="list-style-type: none"> <li>● use failure as opportunity for revision and next steps</li> <li>● don't take no for an answer</li> <li>● firmness of spirit or belief</li> <li>● display courage when met with challenge or adversity</li> </ul>