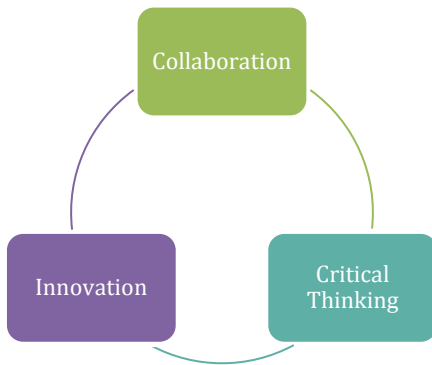


# STEM School Chattanooga

## 11<sup>th</sup> Grade PBL Unit Plan Template

Unit Quarter: 3rd

Title: Glass Street Community Bike Station



### Learning Target Topics

**Collaboration:** Working with other people on a project or problem to achieve a shared goal.

**Creative Thinking:** Accessing, using, and applying information and knowledge.

**Innovation:** Using creative thinking to construct something new and valuable.

Grade Level	11 <sup>th</sup> Grade	Unit Length	9 Weeks
Industry Partner	<ul style="list-style-type: none"> <li>Rondell Crier, Studio Everything</li> <li>Professor Caroline Covington, Chatt State Professor of Art</li> </ul>		
Unit Overview	STEM student teams will design and fabricate a bike station for kids to use outside of Studio Everything on Glass Street. The bike station will feature both artistic and functional aspects. It will be made from metal and serve as a form of metallic art sculpture. It will include capabilities for bike maintenance as well as a charging capability for smartphones. For the school partner, the focus is on the creation of a bike station that possesses artistic value and enhances the Glass Street community. For the STEM School, the focus is on the innovation skills demonstrated by the student teams.		
Unit Essential Issue	<ul style="list-style-type: none"> <li><b>Project:</b> <i>Design and fabricate a community bike station for kids with artistic and functional aspects.</i></li> </ul>		
Kick Off Event	<b>Kick Off: January 12th</b> Rondell Crier will explain the mission of Studio Everything, his work developing metallic art sculpture, the motivation for the community bike station, and key project requirements. Community youth will discuss their ideas for a bike station. At a later time, Professor Covington will provide an orientation of the Chatt State Material Art Facility when students are back at campus.		
Culminating Events	<b>Presentation Day: TBD (March 14th-18th)</b> The student teams will present their functioning community bike station to the project sponsors. The project sponsors will evaluate the designs and provide constructive feedback to the teams.		
Common Assessment	Students will be scored using the Association of American Colleges and Universities rubric for Creative Thinking Skills. All 4's will equate to Advanced, scores of 3 and 4 will equate to Proficient, and any scores below a 3 will equate to Below Basic.  Items that will be used to score student work: <ul style="list-style-type: none"> <li>Assignments (Plans, Weekly Prototype Reports, Design Process Work Products, etc.)</li> <li>Presentation</li> <li>Community Bike Station</li> </ul>		