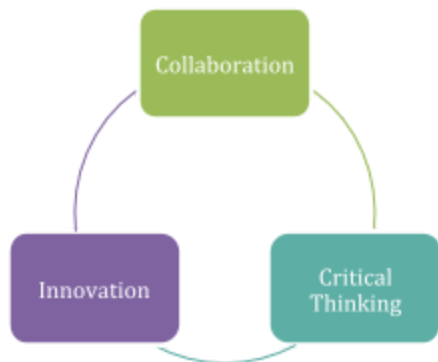


STEM School Chattanooga

11th Grade PBL

Unit Plan

Unit Quarter: 4th Title: Lupton City Mill Site Architecture Design Project



Learning Target Topics

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

Critical Thinking: Accessing, using, and applying information and knowledge.

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

Grade Level	11 th Grade	Unit Length	9 Weeks
Industry Partner	<ul style="list-style-type: none"> Extended Design Studio: Matt Lyle, Sally Morrow, Dawn Snyder, Sarah Page, Jordan Bailey, Lauren Dunn 		
Unit Overview	<p>Working with an amazing group of architects from local firms Franklin Architects, Hefferlin Kronenberg Architects, Cogent Studio, Elemi Architects, and Antidote, STEM student teams will design architectural solutions to reimagine the future of Lupton City. Located only a few miles from the STEM School, Lupton City was once the classic example of a company mill town. Founded in 1920, the town provided modern worker housing near the mill, as well as community services such as a school, post office, and church, and amenities such as concrete sidewalks, a gym, a movie theater, and a swimming pool (Wikipedia). However, that all changed when the mill closed in 2009. The property was acquired by an out-of-state company which demolished the mill and left a 12-acre site of rubble. The City of Chattanooga acquired the property and the mayor announced a plan to clean up the site. For the school partner, the focus is on the application of architectural design process to discover a solution that meets the needs of stakeholders. For the STEM School, the focus is on the innovation and critical thinking skills demonstrated by the student teams.</p>		
Unit Essential Issue	<ul style="list-style-type: none"> Project: <i>Develop an architectural design solution for the former mill site in Lupton City for one of the following areas: Farmers Market, Education Center, Transit Station, Community Center, Performance Pavilion</i> 		
Kick Off Event	<p>Kick Off: Week of March 27th</p> <p>Stakeholders, including elected officials and city representatives, will provide an overview of the initiative to improve the former mill site. Matt Lyle and the team of architects will discuss the architectural design process and expectations for the project. They will lead the team through a prototyping process and familiarize teams with architectural skills.</p>		
Culminating Events	<p>Presentation Day: Week of May 16th</p> <p>Teams will present their architectural design solutions to their sponsors and community stakeholders.</p>		
Common Assessment	<p>Students will be scored using the Association of American Colleges and Universities rubric for Creative Thinking Skills and Critical 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.</p> <p>Items that will be used to score student work:</p> <ul style="list-style-type: none"> Assignments (Weekly Prototype Reports, etc.) Architectural products Final presentation 		