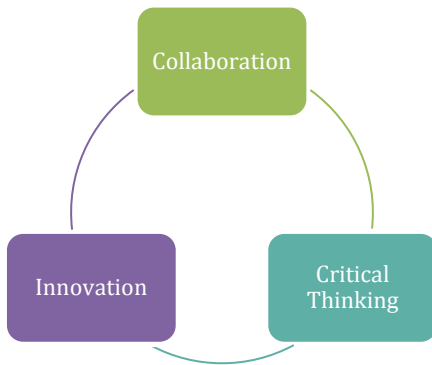


STEM School Chattanooga

11th Grade PBL Unit Plan Template

Unit Quarter: 4th

Title: Pavilion Shelter 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 Studio Team 		
Unit Overview	<p>STEM student teams will design and create models of pavilion shelters for public spaces in East Chattanooga, Moccasin Bend, and Rossville. Designs need to keep in mind the buildability and real world contextual conditions. Teams will prepare for for two 'desk crit' sessions—one early the week of April 18th, and one during the week of May 2nd. For the Extended Studio Team, the focus is on applying architectural design process to create an original design that meets the needs of the community and creates a visually appealing public space. For the STEM School, the focus is on the critical thinking and innovation skills demonstrated by the student teams.</p>		
Unit Essential Issue	<ul style="list-style-type: none"> Project: <i>Apply the architectural design process to design and create a model of a pavilion shelter for public spaces around Chattanooga.</i> 		
Kick Off Event	<p>Kick Off: Week of March 21st The sponsor will discuss the architectural design process and its application to designing structures to meet needs of people. They will review the project requirements to design a pavilion shelter for use in Chattanooga, highlighting the considerations for buildability and real world contextual conditions.</p>		
Culminating Events	<p>Presentation Day: Week of May 16th Student teams will present their pavilion shelter designs to the members of Extended Studio. The presentation will include a model and two design boards with plans, elevations, and process work (test models, sketches, perspectives). Student teams will have 5 to 10 minutes to share their design. The project sponsors will evaluate the designs and provide constructive feedback to the teams.</p>		
Common Assessment	<p>Students will be scored using the Association of American Colleges and Universities rubric for Critical Thinking and 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.</p> <p>Items that will be used to score student work:</p> <ul style="list-style-type: none"> Assignments (Plans, Weekly Prototype Reports, Design Process Work Products, etc.) Presentation to the Extended Studio Team Model of the pavilion shelter Two landscape oriented design boards (24" (h) x 36" (w)) with plans, elevations, and process work (test models, sketches, perspectives) 		