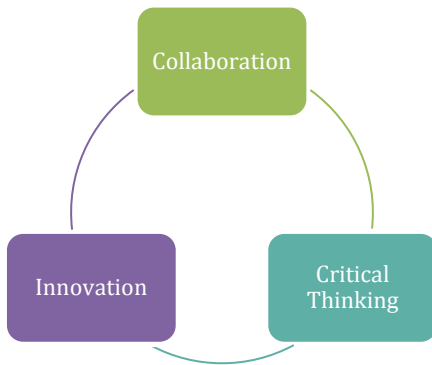


STEM School Chattanooga

11th Grade PBL Unit Plan Template

Unit Quarter: 4th

Title: Tennessee Aquarium Exhibit Design



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"> Christine Young, Tennessee Aquarium Educator 		
Unit Overview	<p>STEM student teams will work with the Tennessee Aquarium education team to analyze and develop a new edutainment based exhibit for a low traffic area at the aquarium. The student teams will have access to the aquarium buildings throughout the duration of the unit. For the Tennessee Aquarium, the focus is on installing a modern, edutainment based exhibit that actively engages visitors while providing relevant information about the local exhibit. 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>Design a new edutainment-based exhibit for the Tennessee Aquarium.</i> 		
Kick Off Event	<p>Kick Off: Week of March 21st The sponsor will discuss the Tennessee Aquarium, intent for a new exhibit, project constraints, and project requirements. Student teams will take an edutour of specific exhibits at the Tennessee Aquarium that will provide a foundation on background information on exhibit design and visitor flow analysis. Students will also meet with staff members who work behind the scenes in maintaining the exhibit and animals. The tour will be designed by the lead partner and will contrast high flow exhibits with low ones.</p>		
Culminating Events	<p>Presentation Day: Week of May 16th Student teams will present their exhibit ideas/products to a team of aquarium staff at the Tennessee Aquarium or at the Aquarium offices. Presentations should include an extensive description of the exhibit idea and/or a working model of product. Student teams will have 5 to 10 minutes to share their design. The aquarium staff will judge the designs and may select an exhibit to further develop and implement. If one of the exhibits is selected, that student team will present to key stakeholders as determined by Aquarium staff.</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 Tennessee Aquarium staff – must include explanation of design choices Product (model of the edutainment exhibit) 		