

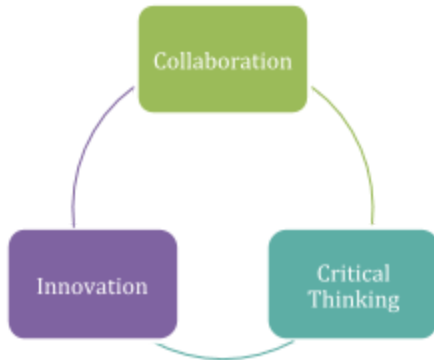
STEM School Chattanooga

11th Grade PBL

Unit Plan

Unit Quarter: 4th

Title: Chattanooga Zoo Amazon Exhibit



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 th Grade	Unit Length	9 Weeks
Industry Partner	<ul style="list-style-type: none"> Chelsea Ciszewski, Education Programs Manager Zack Seymour, Education Specialist 		
Unit Overview	<p>The Chattanooga Zoo engages and inspires our community to better understand and preserve wildlife by creating meaningful connections between people and animals. One of the newest exhibits at the zoo highlights tamarins--a species of monkeys found in small regions in South America. The tamarins live in a new building at the zoo but the exhibit design is not complete. That's where STEM students come in! The zoo education team has asked STEM students to create interactive experiences to better engage zoo visitors. Possibilities include using sound and video to share the story of the tamarins which find their natural rainforest habitats encroached by development. For the school partner, the focus is on the creation of a high quality exhibit to support its educational mission. For the STEM School, the focus is on the collaboration, critical thinking, and innovation skills demonstrated by the student teams.</p>		
Unit Essential Issue	<ul style="list-style-type: none"> Project: <i>Create an innovative educational exhibit to educate zoo visitors on the Amazon, tamarins, and other species.</i> 		
Kick Off Event	<p>Kick Off: Week of March 19th Education Programs Manager Chelsea Dale will discuss the mission of the Chattanooga Zoo and the goals for the Amazon exhibit. Students will receive a tour of the location for the Amazon exhibit. Chelsea Dale and Zack Seymour will discuss desired features of the exhibit and opportunities to integrate technology into the exhibit.</p>		
Culminating Events	<p>Presentation Day: Week of May 14th The student teams will present their exhibit solutions to the project sponsors. The project sponsors will evaluate the solutions and provide constructive feedback to the teams.</p>		
Common Assessment	<p>Students will be scored using the Chattanooga State Community College rubric for Collaborative Skills and the Association of American Colleges and Universities rubrics 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 (Plans, Weekly Prototype Reports, Design Process Work Products, etc.) Presentation Exhibit Solution 		