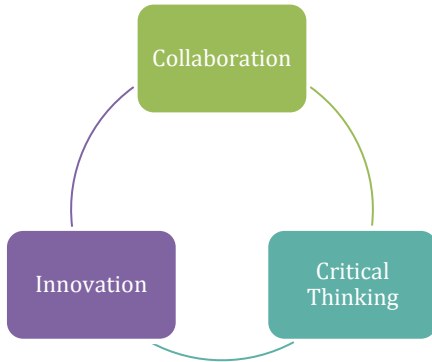


STEM School Chattanooga

11th Grade PBL Unit Plan Template

Unit Quarter: 4th

Title: Science on the Go



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"> Crystal Mayer, Tiffany Welch, Spring Creek Elementary Candace Baggett, Lookout Valley Elementary 		
Unit Overview	STEM student teams will design and fabricate a mobile cart to implement the “Science on the Go” Teacherpreneur concept. The design provide a mobile science lab and curriculum for elementary school students. For the school partner, the focus is on development of a “Science on the Go” solution to meet elementary science teacher and student needs. For the STEM School, the focus is on the critical thinking and innovation skills demonstrated by the student teams.		
Unit Essential Issue	<ul style="list-style-type: none"> Project: <i>Design and fabricate a “Science on the Go” mobile cart for use in elementary school science programs.</i> 		
Kick Off Event	Kick Off: Week of March 21st The project sponsors will discuss an overview of the “Science on the Go” project, key objectives, design guidelines, needs, and constraints.		
Culminating Events	Presentation Day: Week of May 16th The student teams will present their “Science on the Go” final projects. The project sponsors will evaluate the systems and provide constructive feedback to the teams.		
Common Assessment	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. Items that will be used to score student work: <ul style="list-style-type: none"> Assignments (Plans, Weekly Prototype Reports, Design Process Work Products, etc.) Presentation/Information Flyer “Science on the Go” Mobile Cart 		