



# STEM School Chattanooga

## 11<sup>th</sup> Grade PBL

### Unit Plan

Unit Quarter: 4th Title: Songbirds: Storytelling Through Music and Film Production

### 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 <sup>th</sup> Grade	Unit Length	9 Weeks
Industry Partner	<ul style="list-style-type: none"> <li>• Kessler Cuffman, Dynamo Studios</li> <li>• Reed Caldwell, Songbirds Foundation</li> <li>• Mike Dougher and Damien Rogers, Songbirds Guitar Museum</li> </ul>		
Unit Overview	<p>Songbirds Guitar Museum is a guitar-oriented, pop culture experience for the whole family which has recently opened to the public. To enhance their exhibits of rare and vintage guitars, STEM student teams will develop multimedia content to tell the unique stories behind these instruments and enrich the understanding of museum visitors. Each team will tell the story of a guitar and how the instrument impacted the world through the creation of a short documentary film. The students involved will need to research, create a storyboard telling the story of the guitars, create a short film on par with industry standards, practices, and techniques, create audio backtracks and voiceovers, and finally arrange and edit all content to skillfully showcase the instruments and their legacy. Students will use a mobile recording rig provided by Dynamo Studios to create the multimedia content. Dynamo Studios acts as a resource for musicians to generate success in the music world. Their goal is to be the catalyst in a musician's or student's life that allows them to realize their full potential through innovative, collaborative, production based learning programs. The primary focus for Dynamo Studios is to facilitate learning through media creation such as film and audio production. Dynamo will provide curriculum, tutorials, lessons, and educational/technical support for STEM School students and staff. For the school partners, the focus is on students achieving higher learning facilitated through the creation of multimedia content to enhance the guitar exhibits. For the STEM School, the focus is on the collaboration, innovation, and critical thinking skills demonstrated by the student teams.</p>		
Unit Essential Issue	<ul style="list-style-type: none"> <li>• <b>Project:</b> Produce multimedia content to accompany exhibits at Songbirds Guitar Museum through the use of studio production equipment and film.</li> </ul>		
Kick Off Event	<p><b>Kick Off: Week of March 19th</b> Mike Dougher will provide an overview of the Songbirds Guitar Museum. Kessler Cuffman will explain the mission of Dynamo Studios and the capabilities of the mobile recording rig. Both will explain the goals for the multimedia content creation and how the content will enhance the guitar exhibits.</p>		
Culminating Events	<p><b>Presentation Day: Week of May 14th</b> Teams will present their multimedia exhibits at the Songbirds Guitar Museum.</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. Items that will be used to score student work:</p> <ul style="list-style-type: none"> <li>• Assignments (Plans, Weekly Prototype Reports, Design Process Work Products, etc.) and Final Presentation</li> <li>• Critical assessment of media creation by Kessler Cuffman (Dynamo Studios) and Damien Rogers (Songbirds Guitar Museum) [Assessing the level of composition and skill mastery.]</li> <li>• Assess growth areas and determine the level of mastery</li> <li>• Multimedia product for Songbirds Museum exhibit</li> </ul>		