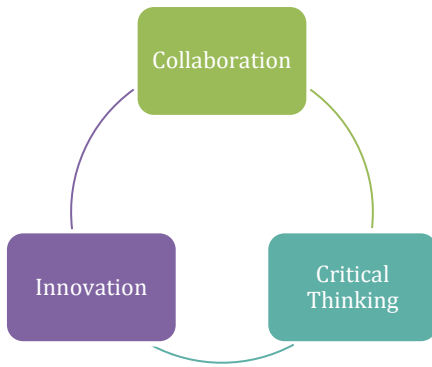


# STEM School Chattanooga

## 11<sup>th</sup> Grade PBL Unit Plan Template

Unit Quarter: 1st

Title: EPB Holiday Window 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 <sup>th</sup> Grade  | Unit Length | 8 Weeks |
| Industry Partner     | EPB <ul style="list-style-type: none"> <li>Control Center Supervisor – lead for this project</li> </ul>   |             |         |
| Unit Overview        | STEM student teams will work with EPB to design and build a display item for the annual EPB Holiday window. The display item must incorporate mechanized dolls and must meet the high standard required by EPB. The item must relate to the general theme of the window. For EPB, the focus of the project is on the product created by the student teams. For the STEM School, the focus of the project is on the collaborative skills exhibited by the student teams.     |             |         |
| Unit Essential Issue | <ul style="list-style-type: none"> <li><b>Project:</b> Build a display item for the EPB Holiday windows.</li> </ul>   |             |         |
| Kick Off Event       | <b>Kick Off: Friday, Aug 21<sup>st</sup>, 10:00 AM – 11:00 AM at EPB Distribution Building #2</b><br>Student teams will meet with EPB lead for this project at EPB for an hour. EPB lead will introduce the window project, provide some behind the scenes information, and set expectation for the display item.   |             |         |
| Culminating Events   | Student teams will present at the end of the unit to the control center supervisor and a team from EPB. Presentations will take place at the EPB data center and each team will have 10 minutes to present. Presentations should include a model that depicts the full design for the display. Teams will be judged by EPB on quality of their products. One team (or more) may be selected by EPB to have their product incorporated in the EPB Christmas window for 2015. |             |         |
| Common Assessment    | Students will be scored using the Association of American Colleges and Universities rubric for Collaboration. 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.<br><br>Items that will be used to score student work: <ul style="list-style-type: none"> <li>Presentation to EPB – must include explanation of design</li> <li>Product (display model)</li> </ul>                          |             |         |