



# ELIGIBLE PROJECTS

## Project Lead The Way

Launch ( 5th grade only)	Gateway	HS Biomedical Science
<p>The FINAL project of the 5th grade modules:</p> <ul style="list-style-type: none"> <li>● <b>5:</b> Robotics &amp; Automation</li> <li>● <b>5:</b> Infection Detection</li> <li>● <b>5:</b> Matter: Prop &amp; Reactions</li> <li>● <b>5:</b> Patterns of the Universe</li> <li>● <b>5:</b> Water Filter</li> </ul>	<ul style="list-style-type: none"> <li>● <b>AC:</b> Build a Body</li> <li>● <b>AC:</b> Great App Challenge</li> <li>● <b>AR:</b> Pull Toy</li> <li>● <b>AR:</b> Auto thru Programming</li> <li>● <b>AR:</b> Wind Turbine</li> <li>● <b>AR:</b> Assembly Line</li> <li>● <b>CSIM:</b> Safe</li> <li>● <b>CSIM:</b> User Interactions</li> <li>● <b>DM:</b> Therapeutic Toy</li> <li>● <b>MD:</b> Outbreak</li> </ul>	<ul style="list-style-type: none"> <li>● <b>PBS:</b> Mobile Medical</li> <li>● <b>PBS:</b> Preventative Med Design</li> <li>● <b>HBS:</b> Burn Models</li> <li>● <b>MI:</b> Prosthetics</li> <li>● <b>MI:</b> Tiny Treatment</li> <li>● <b>BI :</b> Any capstone project</li> </ul>
HS Computer Science	HS Engineering	<p>Don't see the project you were thinking of bringing?</p> <p><i>Get in touch with the team and we will figure it out!</i></p> <p><b><a href="mailto:hhaines@mass-stemhub.org">hhaines@mass-stemhub.org</a></b></p>
<ul style="list-style-type: none"> <li>● <b>CSE:</b> Creative Expressions</li> <li>● <b>CY:</b> Save the Day</li> <li>● <b>CY:</b> Create your Own Cipher</li> <li>● <b>CSP:</b> Command Line GUI</li> <li>● <b>CSA:</b> Problem 2</li> </ul>	<ul style="list-style-type: none"> <li>● <b>IED:</b> Automata</li> <li>● <b>IED:</b> Rev Engineering</li> <li>● <b>POE:</b> Compound Machine</li> <li>● <b>POE:</b> Machine Control</li> <li>● <b>CEA:</b> Affordable Housing</li> <li>● <b>CIM :</b> Automated Vehicle</li> <li>● <b>EDD:</b> Any capstone project</li> </ul>	

## OpenSciEd

6th grade	7th grade	8th grade
<ul style="list-style-type: none"> <li>● Light &amp; Matter</li> <li>● Sound</li> <li>● Forces at a Distance</li> <li>● Earth &amp; Space</li> </ul>	<ul style="list-style-type: none"> <li>● Contact Forces</li> <li>● Thermal Energy</li> <li>● Photosynthesis</li> <li>● Natural Hazards</li> </ul>	<ul style="list-style-type: none"> <li>● Bath Bombs</li> <li>● MREs</li> <li>● M'Kenna</li> </ul>

## PBLWorks

### 5th-12th grade

Projects that have strong evidence of Gold Standard Design Elements from all disciplines are welcomed.  
***We would love to see 8th grade civics projects.***

*See reverse for details on WHAT student work to bring*

# Student Presentations – What work to include

Projects should be complete and solutions developed in teams (i.e. no individual projects) and include both a final prototype as well as documentation of how students arrived at their solution. More concretely:

- **PLTW:** problem statement/design brief, constraints, sketches, decision matrix, testing data, evidence of modifications, physical prototype
- **OSE:** initial consensus model, ending consensus model, investigation design and data that informed the consensus model, and end-of-unit engineering solutions (e.g., thermal cups, human body system models, protective cases, light box models, re-designed speakers)
- **PBLWorks:** Evidence of student reflections, documentation of student feedback and revision, final product/presentation, project rubrics, pictures/videos from other avenues where students presented their public product (if it was presented before)

*Example of student tri-fold posters + prototypes from previous showcase events*

