

<p>Unit: Promotional Graphics Layout and Design</p>	<p>Concept: Minimalizing Negative Impacts</p>
<p>Standard</p> <ul style="list-style-type: none"> 3.5.9-12.C Develop a solution to a technological problem that has the least negative environmental and social impact. 	
<p>Key Learning</p> <ul style="list-style-type: none"> (LTTG) Students will be able to apply investigation, imagination, innovative thinking, and physical skills to accomplish goals. 	<p>Unit Essential Question</p> <ul style="list-style-type: none"> How can I apply investigation, imagination, innovative thinking, and physical skills to accomplish goals?
<p>Essential Question</p> <ul style="list-style-type: none"> Why is it important to sustainably manage technological resources? 	
<p>Key Vocabulary</p> <ul style="list-style-type: none"> Development, Solution, Technical Problem, Impact, Sustainability, Identification, Analysis, Investigation, and Design 	
<p>Learning Experience</p> <ul style="list-style-type: none"> Students who demonstrate understanding can develop a solution to a technological problem that has the least negative environmental and social impact. Clarifying Statement: Students can be challenged to engage in problem identification, analysis, investigation, and design to find technological solutions that improve people’s living conditions or that improve the well-being of individuals or members of a group. 	
<p>(Big Idea) Technology & Engineering Curriculum Framework Big Ideas</p> <ul style="list-style-type: none"> Responsible creation and use of technology requires the sustainable use of renewable and non-renewable resources and handling of waste. 	
<p>(SEP) Science and Engineering Practices</p> <ul style="list-style-type: none"> Asking Questions and Defining Problems - Define a design problem that can be solved through the development of an object, tool, process or system and includes multiple criteria and constraints, including scientific knowledge that may limit possible solutions. 	
<p>(DCI) Disciplinary Core Ideas</p> <ul style="list-style-type: none"> ETS1.B: Developing Possible Solutions - When evaluating solutions, it is important to take into account a range of constraints, including cost, safety, reliability, and aesthetics, and to consider social, cultural, and environmental impacts. 	
<p>(TEP) Technology and Engineering Practices</p>	

- Attention to Ethics - Assesses technological products, systems, and processes through critical analysis of their impacts and outcomes.

Terms

- (ETS) Engineering, Technology, and Applications of Science – Standards applicable across the Science, Environmental Literacy & Sustainability, and Technology & Engineering content areas.
- (LTTG) PDE Technology & Engineering Long Term Transfer Goals
- (Learning Experience) A learning experience refers to any interaction, activity, or other experience in which students acquire new understanding, knowledge, behaviors, or skills.
- (Big Idea #) PDE Technology & Engineering Curriculum Framework Big Ideas
- (SEP) PDE Science and Engineering Practices
- (DCI) PDE Disciplinary Core Ideas
- (TEP) PDE Technology and Engineering Practices