

Green Tech NGSS Alignment CHART - Level 3 Activities

Become Action Heroes	Spread the Word	Pitch It	Meet Levi & Ozgem: Energy Activists
<p>3-5-ETS1-1: Engineering Technology and Applications of Science: Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials time or cost.</p>	<p>3-5-ETS1-1: Engineering Technology and Applications of Science: Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials time or cost.</p>	<p>3-5-ETS1-2: Engineering Technology and Applications of Science: Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.</p>	<p>5-ESS3-1: Earth & Space Sciences: Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.</p>
<p>5-ESS3-1: Earth & Space Sciences: Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.</p>	<p>3-5-ETS1-2: Engineering Technology and Applications of Science: Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.</p>		
<p>3-5-ETS1-2: Engineering Technology and Applications of Science: Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.</p>	<p>3-5-ETS1-2: Engineering Technology and Applications of Science: Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.</p>		
<p>3-5-ETS1-3: Engineering Technology and Applications of Science: Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.</p>	<p>MS-ETS1-2: Engineering Technology and Applications of Science: Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.</p>		
<p>MS-ESS3-3: Earth & Space Sciences: Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.</p>			
<p>MS-ETS1-1: Engineering Technology and Applications of Science: Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions.</p>			
<p>MS-ETS1-2: Engineering Technology and Applications of Science: Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.</p>			
<p>MS-ETS1-3: Engineering Technology and Applications of Science: Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.</p>			
<p>MS-ETS1-4: Engineering Technology and Applications of Science: Develop a model to generate data for iterative testing and modification of a proposed object tool or process such that an optimal design can be achieved.</p>			
<p>HS-ESS3-4: Earth & Space Sciences: Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.</p>			

Green Tech NGSS Alignment CHART - Level 3 Activities

Become Action Heroes	Spread the Word	Pitch It	Meet Levi & Ozgem: Energy Activists
HS-ETS1-2: Engineering Technology and Applications of Science: Design a solution to a complex real-world problem by breaking it down into smaller more manageable problems that can be solved through engineering.			
HS-ETS1-3: Engineering Technology and Applications of Science: Evaluate a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints including cost safety reliability and aesthetics as well as possible social cultural and environmental impacts.			
HS-ETS1-4: Engineering Technology and Applications of Science: Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.			