

## Renewable Engineering Design Activity

Please note that prompts have been added to help inspire ideas about your sustainable device that utilizes renewable energy.

1. Initiating and planning	Record/describe your ideas
<p>Research and identify the problem:</p> <ul style="list-style-type: none"><li>• What is a sustainability concern with non-renewable energy? Who is affected by this problem?</li><li>• What are some possible general solutions?</li><li>• What are some possible solutions using renewable energy? Consider new and innovative concepts that are different from existing solutions.</li></ul>	
2. Performing and recording	Draw/describe your prototype
<p>Select an option and develop a prototype:</p> <ul style="list-style-type: none"><li>• Plan the design of the solution, considering the required states as well as the materials, equipment and time. Construct an early prototype of the design.</li><li>• If possible, build your device.</li></ul>	

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3. Test the prototype	Record your observations
<p>Select an option:</p> <ul style="list-style-type: none"><li>• Conduct tests in a variety of contexts including controlled and real-life environments and with various potential users. Record observations from tests.</li><li>• Describe the tests you would conduct and the results you would find. If possible, test your prototype and record observations from tests.</li></ul>	
4. Analyzing and interpreting	Concerns/possible changes
<p>Evaluate and revise the prototype:</p> <ul style="list-style-type: none"><li>• Consider the results from testing and what changes you might make to refine and produce the final product, and why?</li></ul>	

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5. Communicating	Share your final design
<p>Communicate the solution:</p> <ul style="list-style-type: none"><li>• Consider your audience for sharing and choose an appropriate form or medium to share your final design.</li><li>• What method of communication did you choose and why?</li></ul>	