

## My Simple Machine Activity

Steps	Your response
<b>Ask</b> <ul style="list-style-type: none"><li>• What is the problem you are trying to solve?</li><li>• What simple task will your machine do?</li></ul>	
<b>Research and imagine</b> <ul style="list-style-type: none"><li>• What are some possible solutions?</li><li>• Brainstorm your ideas and consider what simple machines it will include.</li></ul>	

## My Simple Machine Activity

Steps	Your response
<b>Plan</b> <ul style="list-style-type: none"><li>• Plan a design and create a drawing that includes all materials you may need.</li><li>• Label materials and identify simple machines being used</li></ul>	
<b>Create</b>	If possible, build your first prototype of your device.

## My Simple Machine Activity

Steps	Your response
<b>Test</b>	<p>If possible, test your device. Record your observations.</p> <p>What changes do you need to make? Why?</p>
<b>Improve</b>	<p>Does this solve the problem? How can the design be improved?</p>

## My Simple Machine Activity

Steps	Your response
<p><b>Communicate</b></p> <p>Share your device with others in a method of your choice. Create an advertisement for the machine that you created in one of the following methods:</p> <ul style="list-style-type: none"><li>• Turn your design into a newspaper advertisement (just like Rube Goldberg used to do!) and explain what purpose it serves with step-by-step instructions of the machine.</li><li>• Create a poster (in print or digitally) that explains the purpose your machine serves with step-by-step instructions of the machine.</li><li>• Create an audio recording of yourself that explains the purpose your machine serves with step-by-step instructions of the machine.</li></ul>	<p>Be sure to include:</p> <ul style="list-style-type: none"><li>• the purpose or function of your machine (Hint: What does it do?)</li><li>• the simple machines included in your design</li><li>• how your machine works (step-by-step)</li></ul>

## My Simple Machine Activity

Steps	Your response
<p><b>Calculate</b> Calculate the mechanical advantage and work of two of the simple machines that you included.</p>	