Tower Masters Research Worksheet

1. **Define** by cutting and pasting from the picture choices below:

   An *engineer* is a person who uses:

   ![Picture Choices]

   to create

   to solve a problem in the world.

   A *civil engineer* is a person who designs all kinds of structures, including public works such as:

   ![Public Works]

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Choose from the following items to cut and paste answers to questions 1 and 2.

<table>
<thead>
<tr>
<th>Research the problem</th>
<th>Imagine: Develop possible solutions</th>
<th>Improve: Redesign as needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Bridge]</td>
<td>![Light Bulb]</td>
<td>![Waterfall]</td>
</tr>
<tr>
<td>Ignore the problem</td>
<td>Create: Build a prototype</td>
<td>Test and evaluate prototype</td>
</tr>
<tr>
<td>Plan: Select a promising solution</td>
<td>Create a hypothesis</td>
<td>Ask: Identify the need and constraints</td>
</tr>
</tbody>
</table>

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Straw Towers to the Moon Activity–Tower Masters Research Worksheet (GrK-2)
2. The **engineering design process** is a series of steps that guides engineers as they design and redesign structures and other inventions without wasting a lot of money, time and materials.