

Name:

Date:

Class:

Tower Masters Research Worksheet

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

An **engineer** is a person who uses:

+

→

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:

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

| | | | | |
|---|---|---|--|---|
| Research the problem |  | Imagine: Develop possible solutions |  | Improve: Redesign as needed |
|  | Ignore the problem |  | Create: Build a prototype |  |
| Plan: Select a promising solution |  | Create a hypothesis | Ask: Identify the need and constraints | Test and evaluate prototype |

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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.

