

## Tower Masters Research Worksheet (Gr3-5) **Answer Key**

### 1. Define:

**Engineer:** An engineer is a person who applies his or her understanding of science and mathematics to create something to solve a problem that helps people and benefits our world.\_\_\_\_\_

**Civil engineer:** A civil engineer is a person who designs buildings as well as bridges, dams and other structures.\_\_\_\_\_

### 2. Compare and contrast observations: List features that are common to the world's tallest towers.

1. Taller towers are larger at the base than at the top.\_\_\_\_\_
2. Taller towers have antennas.\_\_\_\_\_
3. Taller towers are shaped like triangles rather than rectangles.\_\_\_\_\_

### 3. What is the engineering design process?

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.\_\_\_\_\_

