**Race to the Top! Pre-Activity Quiz Answer Key**

**Fill in the blanks:**

**1.** **Why is it important for engineers to use models? (2 points)**

To save time and money to evaluate designs and structures.

**2.** **List two shapes that are used by engineers to build towers. (2 points)**

A. \_\_rectangles\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B. \_\_triangles\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Circle the correct answer: (1 point each)**

**3.** **What is a member?**

A. A window or door in a structure

B. A bolt or screw in a structure

⃝C. A beam or column of a structure

**4.** **What does weight-bearing mean?**

A. A structure that is able to support itself without assistance from other structures or supports.

⃝B. A structure that is able to support additional weight besides the weight of its members.

C. A structure that is able to support bears.

**5.** **A structure that is able to support itself without assistance from other structures or supports is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

A. weight-bearing

⃝B. free-standing

C. free weight