

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## 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