Name: _____ Date: _____ Class: _____

Building Our Bridge to Fun Pre-Assessment

Answer Key

Read the following questions, and for each one circle the best choice as accurate as possible:

1. A *pulling* force that acts to *lengthen* an object is defined as
   a. Compression force
   b. Tension force
   c. Shear force
   d. All above
   e. None of the above

2. A *pushing* force that acts to *shorten* an object is defined as

   a. Compression force
   b. Tension force
   c. Shear force
   d. All above
   e. None of the above

3. Which of the following loads are to be consider in a bridge design?

   a. Weigh of the bridge
   b. Snow load
   c. Wind load
   d. Traffic and people load
   e. All above

In real life, which of the following combination of materials is useful to have a bridge that works under compression and tension?

   a. Stone and water
   b. Concrete and steel
   c. Glass and plastic
   d. Steel an ice
   e. All above

Statement	Agree a lot	Agree	Disagree	Disagree a lot
I want to learn more about Bridge design				
Engineers should know material properties to design and build bridges and other constructions				
Math is important in *my* everyday life				
Robots can help design and build bridges				