

Building Our Bridge to Fun Pre-Assessment

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

4. In real life, which of the following combination of materials is the best choice for constructing 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 <i>my</i> everyday life				
Robots can help design and build bridges				