

## **Forces on Structures Test Review**

1. What is a Newton?
  
  
  
  
  
  
  
  
  
  
2. Explain the following terms:
  - a. Tension:
  
  
  
  
  
  
  
  - b. Compression:
  
  
  
  
  
  
  
  - c. Difference between flexible and rigid:
  
  
  
  
  
  
  
  - d. Force:
  
  
  
  
  
  
  
  - e. Gravity:
  
  
  
  
  
  
  
  - f. Energy:
  
  
  
  
  
  
  
  
  
  
3. What is a balancing act?
  
  
  
  
  
  
  
  
  
  
4. Name and describe 3 different types of bridges.
  
  
  
  
  
  
  
  
  
  
5. Name 4 different kinds of natural forces that can affect structures.
  
  
  
  
  
  
  
  
  
  
6. What are the similarities and difference between pyramids and Stonehenge?

7. What are the differences between tornadoes and hurricanes?
8. How are landslides and avalanches destructive to structures?
9. What is a mechanical system and what do they have to do with force?
10. What do gears and pulleys have to do with a mechanical system?