

**Station J—Elastic Forces Due to Compression**

1. Pick up a flexible drinking straw from the table and observe it carefully. Notice that it resembles a spring. Slowly bend the it to form an arch.

What happened to the ridges on the top and bottom? \_\_\_\_\_  
\_\_\_\_\_

2. Now bend the straw so that it forms a valley.

What happened to the ridges on the top and bottom? \_\_\_\_\_  
\_\_\_\_\_

3. Draw a diagram in the space below of the straw as an arch and also as a valley. Identify, using arrows (vectors), the direction of each of the forces acting on the ridges at the top and bottom.