

Station F—Elastic Forces Due to Compression

1. Observe the sponge on the table.

Describe the forces acting on the sponge. _____

2. Now place the textbook on top of the sponge, covering 1 cm of the sponge's edge.

What happens to the sponge? _____

3. Remove the textbook and observe the sponge.

What happens to the sponge? _____

4. Replace the textbook on the edge of the sponge and draw a diagram in the space below of the textbook on top of the sponge. Identify, using arrows (vectors), the direction of each of the forces acting on the object(s).