

# Force Stations

## Student Worksheet 1

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

### Exploring Forces

#### Instructions

Conduct the simple experiment at each of the ten stations. Rotate to the next station when directed by your teacher.

#### Station A—Elastic Forces Due to Tension

1. Examine the washers hanging from the rubber band.

Describe the forces acting on the washer. \_\_\_\_\_

\_\_\_\_\_

2. Examine the washers hanging from the string.

Describe the forces acting on the washer. \_\_\_\_\_

\_\_\_\_\_

How are the forces acting on the washer hanging from the rubber band and the washer hanging from the string different? How are they the same? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Draw a diagram in the space below of the washers hanging from the rubber band and from the string. Identify, using arrows (vectors), the direction of each of the forces acting on the object(s).