

### ***Lab 5-2: Finding Friction***

**Purpose:** Devise a method to calculate the force of friction for the following two situations:

- a. A wooden block that is pulled across the lab table by a string attached to a hanging mass over a pulley.
- b. A wooden block that is sliding down an inclined ramp.

**Procedure:** *You can do these 2 tasks in either order.*

**Task 1:** Attach a string to a wooden block and attach a pulley to the end of the table. Put a hanger on the end of the string so that it accelerates the wooden block across the table. Devise a method to calculate the force of friction that is acting on the block. Describe your procedure, make a data table and show all your calculations here:

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**Task 2:** Attach a ramp to a pole to make an inclined plane. Without any strings, let the wooden block slide down the incline. Devise a method to calculate the force of friction that is acting on the block. Describe your procedure, make a data table and show all your calculations here: