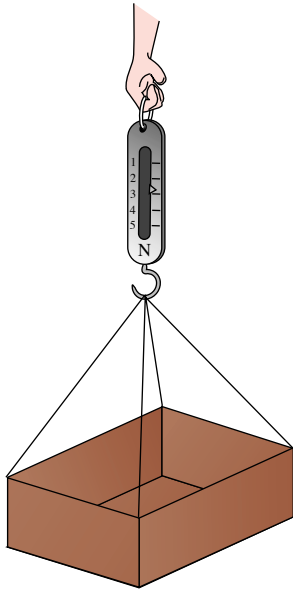


2. Explore how the frictional force between an object and a surface depends on the weight of the object. Use a box as the object, a given surface, sand as the material for adjusting the weight of the box, and a spring scale for measuring both the weight of the box and the frictional force.

- a) Prepare a table in your log like the one shown for recording data.



Weight	Frictional Force (N)
2.0	
4.0	
6.0	
8.0	
10.0	

3. Measure the weight of the box in newtons by suspending it from a spring scale. Add sand to adjust the weight of the box to 2 N.
4. Use the spring scale to pull horizontally on the box. Measure the amount of force needed to cause the box to slide on the surface at a low, constant speed.
- a) Record the frictional force in your table.

