**Inclined Plane Demonstrator Lab**

1. Place the Inclined Plane Demonstrator on a level, solid surface. Select the unit of measurement you want to use on the digital scale by clicking the “M” button.
2. Choose a known mass and place it in the cart. Adjust the angle on the Inclined Plane Demonstrator by loosening the screw on the protractor. Record all results on the chart below.

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| Angle | Spring Scale reading (N) | Digital Scale Reading (g) | Digital Scale Reading in kg(g / 1000) | Weight (W)Mass (kg) x acceleration of gravity (9.81 m/s2) | Normal Force (Fn) W (N) x cos of angle | Parallel Force (F II)W (N) x sin of angle |
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Create a line graph is desired. There are several possibilities, but we suggest starting with Angle v. W, Angle v. Normal Force, and Angle v. Parallel Force

