

Lesson 11.1
Measuring Forces on a Cart on an Inclined Plane

Chart to collect information from Procedures 1-8.

| Force to Move Sled (N) Across Table <i>Gather data before question one.</i> | Force to Move Cart (N) Across Table <i>Gather data before question one.</i> | Force to Move Cart Up Incline (N) From a Height of Seven Holes <i>Gather data after question five.</i> |
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| 1. How does the force to move the sled compare to the force need to move the cart? | | |
| 2. If there is a difference in the two forces, why do you think caused the difference? | | |
| 3. Place the cart on an incline and record the force required to hold it on the incline. | | |
| 4. What creates the force on the cart on the inclined plane? | | |
| 5. How do you think the effort force needed to pull the cart up the incline at a slow, steady speed would compare with the effort force needed to move the sled across the table? Explain your reasoning: | | |