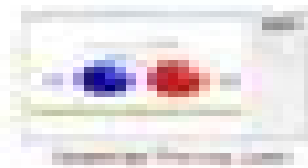


Experiment 1: Newton's Second Law Objectives: To determine the acceleration of a cart on an inclined plane.

Introduction:

Newton's second law states that the net force acting on an object is equal to the mass of the object multiplied by its acceleration. In this experiment, we will use a cart on an inclined plane to determine the acceleration. The cart is connected to a string that passes over a pulley and is attached to a weight. As the weight falls, it pulls the cart up the incline. By measuring the time it takes for the cart to travel a certain distance, we can calculate its acceleration. The acceleration is expected to be constant, as the net force is constant. The acceleration is also expected to be proportional to the weight of the hanging mass, as the net force is proportional to the weight. The acceleration is also expected to be inversely proportional to the mass of the cart, as the net force is constant.



Equipment:

$$F = ma$$

Procedure: 1. Set up the apparatus as shown in the diagram. 2. Release the cart from the top of the incline. 3. Measure the time it takes for the cart to travel a certain distance. 4. Calculate the acceleration using the equation $a = \frac{2d}{t^2}$.

1. Release the cart from the top of the incline. Measure the time it takes for the cart to travel a certain distance.
2. Calculate the acceleration using the equation $a = \frac{2d}{t^2}$.
3. Repeat the experiment for different weights and masses. Record the acceleration for each case.

Results:

Mass (kg)	Distance (m)	Time (s)	Acceleration (m/s ²)	Weight (N)
0.1	0.5	0.32	0.96	0.98
0.2	0.5	0.22	1.96	1.96
0.3	0.5	0.18	2.96	2.94
0.4	0.5	0.15	3.96	3.92
0.5	0.5	0.13	4.96	4.90
0.6	0.5	0.11	5.96	5.88
0.7	0.5	0.10	6.96	6.86
0.8	0.5	0.09	7.96	7.84
0.9	0.5	0.08	8.96	8.82
1.0	0.5	0.07	9.96	9.80

Conclusion: The acceleration of the cart is proportional to the weight of the hanging mass and inversely proportional to the mass of the cart. The acceleration is constant for a given weight and mass.

Universal Gravitation Phet Lab Answers

Katrin Zwirgmaier



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