

Experiment 1: Newton's Second Law

What happens when a force is applied to an object?

Introduction

Many objects around us are subject to forces. Forces cause objects to change in motion. In this experiment, we will study the relationship between force and motion. We will use a force sensor to measure the force applied to an object and a motion sensor to measure the object's position. We will then use the data to calculate the object's acceleration. This experiment is based on Newton's Second Law of Motion, which states that the acceleration of an object is directly proportional to the net force acting on it and inversely proportional to its mass.



Figure 1: Experimental Setup

Equipment and Materials

$$F = ma$$

Procedure: 1. Set up the experiment as shown in the diagram. 2. Use the force sensor to measure the force applied to the mass. 3. Use the motion sensor to measure the position of the mass.

1. Use the force sensor to measure the force applied to the mass. The force sensor is connected to a computer and a data logger.
2. Use the motion sensor to measure the position of the mass. The motion sensor is connected to a computer and a data logger.
3. Calculate the acceleration of the mass using the data from the force sensor and the motion sensor.

Newton's Second Law

Mass (kg)	Force (N)	Acceleration (m/s ²)	Time (s)	Position (m)
0.1	0.5	5.0	0.0	0.0
0.1	1.0	10.0	0.1	0.05
0.1	1.5	15.0	0.2	0.20
0.1	2.0	20.0	0.3	0.45
0.1	2.5	25.0	0.4	0.80
0.1	3.0	30.0	0.5	1.25
0.1	3.5	35.0	0.6	1.80
0.1	4.0	40.0	0.7	2.45
0.1	4.5	45.0	0.8	3.20
0.1	5.0	50.0	0.9	4.05

Force (N) vs. Time (s)

Position (m) vs. Time (s)

Acceleration (m/s²) vs. Time (s)

Force (N) vs. Position (m)

Force (N) vs. Acceleration (m/s²)

Position (m) vs. Acceleration (m/s²)

Force (N) vs. Position (m)

Force (N) vs. Acceleration (m/s²)

Universal Gravitation Phet Lab Answers

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