

Lab 3: May the Force Be with You

Name: _____

Date: _____

Group Members: _____

Objectives

- Understand and define force
- Calculate an object's force
- State and apply Newton's First and Second Laws of Motion

A. Pre-lab Questions

1. What is force? Give three examples of a force being exerted.
2. What is the difference between an unbalanced and balanced force?
3. Write Newton's First Law of Motion.
4. Write Newton's Second Law of Motion

B. Group Lab

In the last lab you watched two movie clips to determine an object's acceleration. You will use that data in this lab and apply it to Newton's First and Second Laws.

Newton's First Law of Motion

Looking at your data from the last class, write down the forces exerted on the object.

C. Analyze the Results

In a paragraph explain your results.