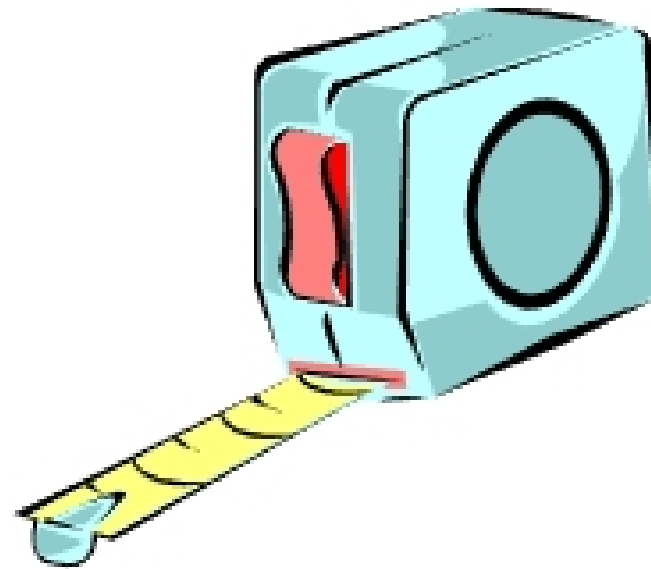
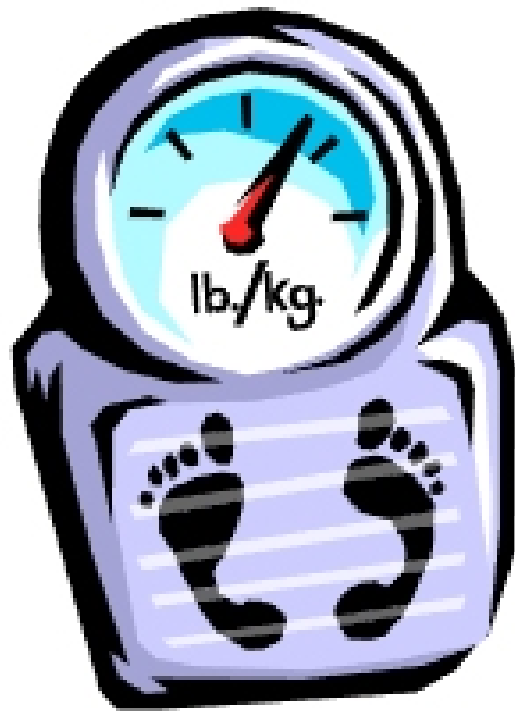


Chapter 1

Preludes



What is Physics?

An *experimentally* based science with a goal of understanding and explaining the *fundamental* principles that govern the physical universe.

“The goal of physics is to predict the future.”

–Dr. C. Fronsdal

Studying Physics

1. Four Major Subjects
 - a. Classical Mechanics
 - b. Thermodynamics and Statistical Mechanics
 - c. Electricity and Magnetism
 - d. Quantum Mechanics
2. Studied at four different levels
 - a. Using Algebra (High School or College)
 - b. Using Calculus (Lower division college)
 - c. Using Differential Equations (Upper division)
 - d. Using graduate mathematics (Graduate School)