



Determining If Air Has Mass

Procedure

1. On a **pan balance**, find the mass of an **inflatable ball** that is completely deflated.
2. Hypothesize about the change in the mass of the ball when it is inflated.
3. Inflate the ball to its maximum recommended inflation pressure.
4. Determine the mass of the fully inflated ball.

Mass of Ball When Completely Deflated	Predicted Mass of Ball When Fully Inflated	Actual Mass of Ball When Fully Inflated

Analysis

1. What change occurs in the mass of the ball when it is inflated?

2. Infer from your data whether air has mass.
