

A.1.4 Newton Dial Scale

Key Concepts: Weight
Mass
Materials: Newton dial scale
Kilogram scale
Various masses
Set Up Time:
Time Estimate:

Set Up And Display

Suspend the two scales. Measure the masses on the kilogram scale and then the Newton scale.

Explanation

The explanation is crucial in this demonstration. By looking at the two scales it might be assumed that kilograms and Newtons are merely different units for measuring the same quantity. Emphasizing that Newtons measure the weight of an object resulting from the pull of gravity on a mass measured by kilograms must be made. Describe the changes of weight a person undergoes in an elevator or on the Moon and point out that the mass remains the same.

Related Demonstrations: B 2.21