

# Atwood's Machine

## Introduction

Newton's 2<sup>nd</sup> Law (N2L) states that the acceleration of an object depends on the net applied force and the object's mass ( $F = ma$ ). In an Atwood's Machine, the difference in weight between two hanging masses demonstrates the net force acting on the system of both masses. This net force accelerates both of the hanging masses; the heavier mass is accelerated downward, and the lighter mass is accelerated upward.

Consider the following free-body diagrams for a typical Atwood's machine, where  $T$  is the tension in the string,  $M_1 > M_2$ , and  $g$  is the acceleration due to gravity:



Utilizing N2L, we can solve for the net force of both masses, using the convention that movement up is positive and movement down is negative:

$$F_{\text{net}} = M_1 a \Rightarrow T - M_1 g$$

$$F_{\text{net}} = M_2 a \Rightarrow T - M_2 g$$

To find the downward acceleration of the system, both equations must be utilized to solve for  $a$  in which assumptions are made concerning the string and pulley:

1. Pulley: Massless & Frictionless
2. String: Massless & Stretchless

Thus,  $T_1 = T_2$  and  $T$  can be eliminated:

$$T - M_1 g + a = M_2 g - M_2 a \Rightarrow M_1 g - M_2 g = T - M_2 g + T - M_1 g$$

$$\Rightarrow (M_1 + M_2) a = (M_2 - M_1) g$$

$$a = \frac{g(M_2 - M_1)}{(M_1 + M_2)} = \frac{F_{\text{net}}}{M_{\text{total}}}$$

and N2L is reinserted. A key observation must be noted: acceleration is always less than gravity. Can you see why?

# Lab Accelerated Physics Solution Manual

**AW Rasmussen**



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