

## Free-Body Diagrams and Forces

### 4. Experimental Objectives

- The student will design an experiment that is able to prove or disprove hypotheses
- The student will understand the relationship of force vectors within a system
- The student will use the Newton laws to explain the results of the 4-part experiment
- The student will make quantitative measurements of forces

### 5. Background

Newton's 1<sup>st</sup> law states that an object at rest will remain at rest unless acted upon by an external force. This law applies to any object that is not being pushed or pulled by an external force. This law is often used to explain the behavior of objects at rest. For example, a book sitting on a table will remain at rest unless a force is applied to it. This law is often used to explain the behavior of objects in motion. For example, a car moving at a constant velocity will remain at that velocity unless a force is applied to it.

Newton's 2<sup>nd</sup> law states that the acceleration of an object is directly proportional to the net force acting on it and inversely proportional to its mass. This law is often used to explain the behavior of objects in motion. For example, a car accelerating from rest will have a greater acceleration if the net force acting on it is greater. This law is often used to explain the behavior of objects in motion. For example, a car moving at a constant velocity will have a net force of zero acting on it.

Newton's 3<sup>rd</sup> law states that for every action, there is an equal and opposite reaction. This law is often used to explain the behavior of objects in motion. For example, a car moving forward will have an equal and opposite reaction force acting on it. This law is often used to explain the behavior of objects in motion. For example, a car moving forward will have an equal and opposite reaction force acting on it.

A free-body diagram is a diagram that shows the forces acting on an object. It is often used to explain the behavior of objects in motion. For example, a car moving forward will have a net force of zero acting on it. This law is often used to explain the behavior of objects in motion. For example, a car moving forward will have an equal and opposite reaction force acting on it.

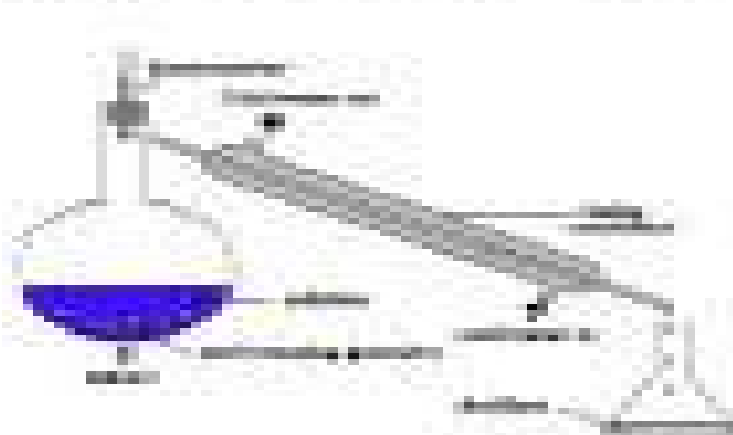


Figure 1: Diagram of a pulley system.

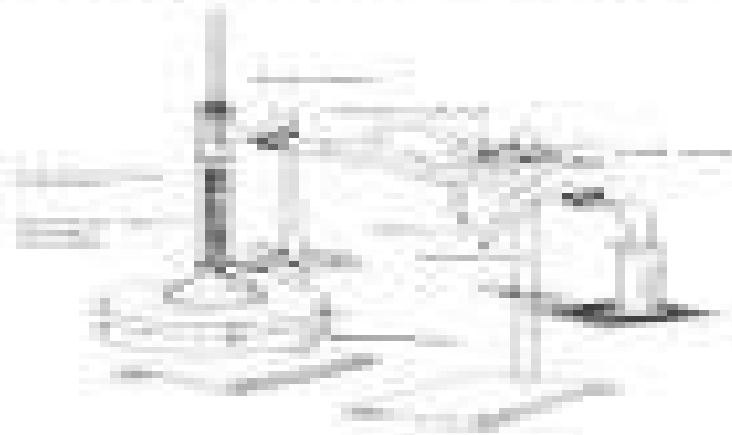


Figure 2: Diagram of a pulley system.

# Fractional Distillation Manual

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