

## Forces • Section Summary

## Friction and Gravity

### Key Concepts

- What factors determine the strength of the friction force between two surfaces?
- What factors affect the gravitational force between two objects?
- Why do objects accelerate during free fall?

The force that two surfaces exert on each other when they rub against each other is called **friction**. It acts in a direction opposite to the direction of the moving object. Friction will eventually cause an object to come to a stop.

The strength of the friction force depends on two factors: **how hard the surfaces push together and the types of surfaces involved**. Rough surfaces produce greater friction than smooth surfaces. Friction also increases if the surfaces push hard against each other.

**Static friction** acts on objects that aren't moving. **Sliding friction** occurs when solid surfaces slide over each other. **Rolling friction** occurs when an object rolls over a surface. **Fluid friction** results when an object moves through a fluid—a liquid or a gas. The force needed to overcome rolling friction or fluid friction is usually less than that needed to overcome sliding friction.

**Gravity** is a force that pulls objects toward each other. The law of universal gravitation states that the force of gravity acts between all objects in the universe. Any two objects in the universe, without exception, attract each other. Two factors affect the gravitational attraction between objects: **mass and distance**. Mass is a measure of the amount of matter in an object. The more mass an object has, the greater its gravitational force. The farther apart two objects are, the less the gravitational force between them.

**Weight** is the force of gravity on a person or object at the surface of a planet. Weight is a measure of the force of gravity on an object, and mass is a measure of the amount of matter in that object.

When the only force acting on an object is gravity, the object is in **free fall**. In free fall, the force of gravity is an **unbalanced force that causes an object to accelerate**. Near Earth's surface, acceleration due to gravity is  $9.8 \text{ m/s}^2$ .

Objects falling through air experience a type of fluid friction called **air resistance**. Air resistance is not the same for all objects. The greater the surface area of an object, the greater the air resistance. Air resistance also increases with velocity. So, as the velocity of a falling object increases, air resistance increases until it is equal to the force of gravity. When forces are balanced, the velocity stops increasing. The greatest velocity that can be obtained by an object in free fall is called **terminal velocity**.

An object that is thrown is called a **projectile**. While a projectile moves horizontally, the force of gravity pulls it toward Earth.

# Friction And Gravity Guided Study Answers

**Kathy Austin**



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