

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Types of Forces

Scientists give names to the different types of forces. Some of these names you may already know, and others may be new to you. There are many different types of forces. Four of these forces are described here.

## The Force of Gravity

Planets pull objects towards them. Earth pulls you and other objects toward it. This pulling force is called gravity.



## Muscular Force

The muscles in your body are attached to bones. Muscles pull on these bones. This is called muscular force. It allows you to move in many different ways.

## The Force of Buoyancy

When you jump in a pool, some of the water splashes up. Your body pushed down on the water and the water pushed up on you. This made the splash. This upward pushing force is called buoyancy.



## The Force of Friction

When two objects slide over each other they rub and push against each other. This pushing force is called friction.



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Questions:

1. Do some examples have more than one force involved?

Yes

2. How do you know?

Gravity acts on all objects.

Anything moving has friction from ground, water or air.

3. Does air push up on a kite or a plane? Explain.

Yes.

Air acts like water, it produces a buoyant force.