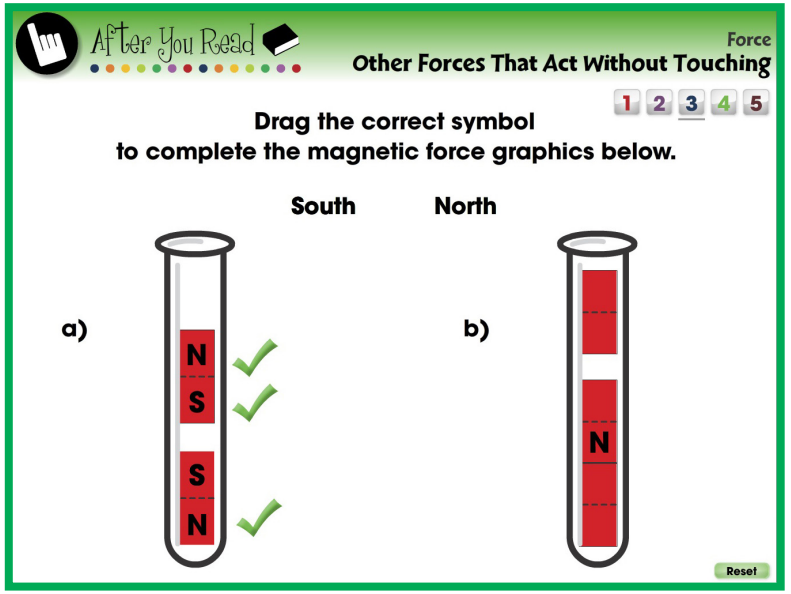
Contents

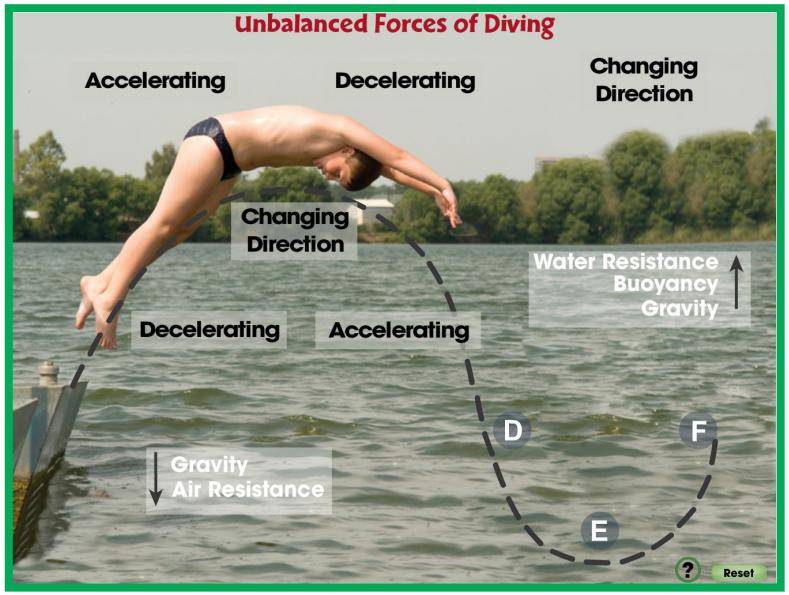
Contents

Force

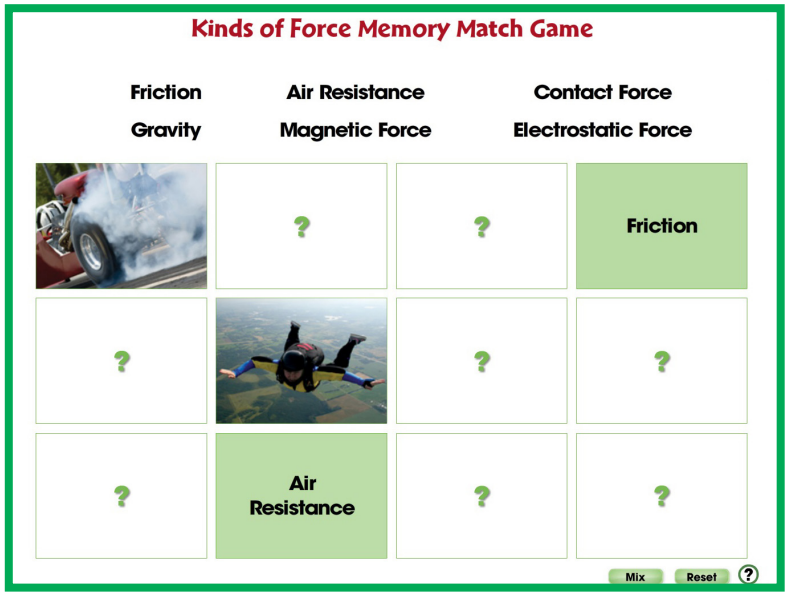
After You Read



Interactive Activity



Memory Match Game



Contents

Contents

Motion

Reading Passage

Reading Passage

Motion
Vibrating Motion

The pictures to the right show four things that move with a vibrating motion, arranged from most pleasant to most unpleasant. When something vibrates it moves back and forth or up and down.

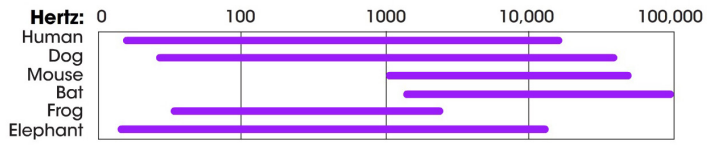
We can see the jackhammer and woodpecker's head moving back and forth. The motion of the guitar strings and humming bird's wings are so fast we just see a blur.

The speed of the vibration is called the **frequency**. Frequency tells how often (how frequently) the thin

continue reading

Interactive Activity

Ranges of Hearing



20-20,000 Hz

40-60,000 Hz

(label)

16-12,000 Hz

(label)

(label)

(label)

50-4,000 Hz

1,000-70,000 Hz

2,000-120,000 Hz

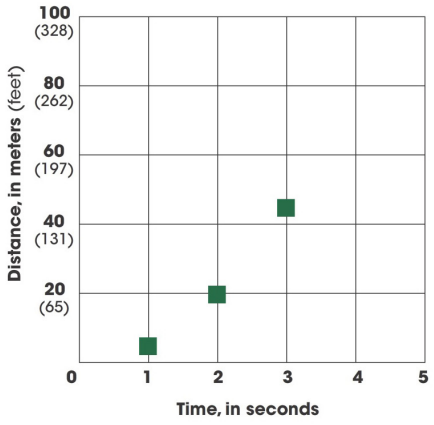
Reset

Interactive Activity

Acceleration of a Falling Apple Timeline

Acceleration = 10 meters (32 feet) **per second *per second***

Distance = 0.5 X acceleration X time squared



Time, in seconds	Distance, in meters(feet)
1	5 (16)
2	20 (64)
3	45 (144)
4	

10 (32) 35 (112) 60 (192) 80 (256)

Reset

Contents

Contents

Before You Read

Before You Read

Simple Machines
Compound Machines

1 2

Which statements are True and which statements are False?

- ✓ TRUE / FALSE **A)** Compound means separate.
- ✓ TRUE / FALSE **B)** A wedge is a simple machine.
- ✓ TRUE / FALSE **C)** We can do some things with simple machines we couldn't do without them.
- ✓ TRUE / FALSE **D)** An axe is made of two simple machines.
- TRUE / FALSE **E)** Simple machines are always smaller than machines with motors.

Reset

Interactive Activity

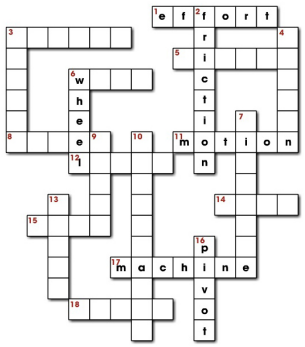
First, Second, and Third-Class Levers

First-Class Lever	Second-Class Lever	Third-Class Lever
 Baseball Ba...	 Nutcrake...	 Door on Hing...
Third-Class Lever	Second-Class Lever	Third-Class Lever
 Wheelbarrow	 Oil Pump	 Stapler
Second-Class Lever	(label)	(label)
 Seesaw	 Hole Puncher	 Soft Drink Can Tab
(label)	(label)	(label)

Reset

Crossword Puzzle

Crossword Reset



Word List

distance, exert, newton, planes, resistance, wedge

Across / Down

2. The force that slows down something that is sliding.
3. Ramps are inclined _____.
4. How force is measured in the metric system.