PINBALL MACHINE



HOW SCIENTIFIC IS A PINBALL MACHINE?

WRITTEN AND CREATED BY:



AINSLEY VANDENBRINK



JOSH RIBBONS



NATALIE NYHOF

Table of Contents

Chapter	Author	Page
Marbles on a ramp	Natalie Nyhof	3
Making a Bulb Light Up	Josh Ribbons	4
Magnetism	Ainsley VandenBrink	5
Newton's 1st Law	Natalie Nyhof	6
Newton's 2nd Law	Ainsley VandenBrink	7
Newton's 3rd Law	Josh Ribbons	8
Glossary	All	9

Where's the science?

Write about it here...

Show it over there -->

Use **BOLD and HIGHLIGHT to make words stand out...





Picture with label and arrows Use PicMonkey

<u>Vocabulary</u>

Speed

Force

Acceleration

Gravity

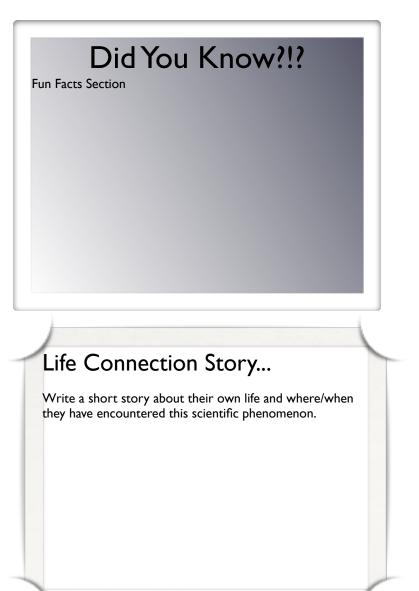
Weight

Where's the science?

Write about it here...

Show it over there -->

Use **BOLD and HIGHLIGHT to make words stand out...





Picture with label and arrows Use PicMonkey

Vocabulary

Speed

Force

Acceleration

Gravity

Weight

Magnetism

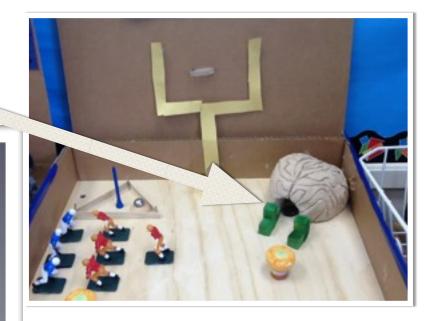
Where's the science?

Have you ever tried to connect magnets and they don't stick? Well that's because you are trying to connect either the two north poles or the two south poles. That is called a **MAGNETIC POLE**. A **MAGNETIC FIELD** is created when current flows in a wire. A **MAGNETIC FIELD** is invisible. **MAGNETIC ATTRACTION** is a force that draws metal like steel and iron towards the magnet.

ELECTROMAGNET: If you wrap a wire around a steel nail maybe 20 times and take both sides of the wire and connect it to a battery the nail can pick up a few paper clips.

The Magnet in our pinball machine is in the brain.

Did You Know?!? Did you know that if you put a magnet in fire it will lose its magnetic abilities?



Life Connection Story...

I got to take apart a remote control car and use the motor to make a pinball machine. The motor is placed on top of a clay brain. Every time the ball goes in the brain the motor spins.

Vocabulary

Speed

Force

Acceleration

Gravity

Weight

Where's the science?

Write about it here...

Show it over there -->

Use **BOLD and HIGHLIGHT to make words stand out...





Picture with label and arrows Use PicMonkey

<u>Vocabulary</u>

Speed

Force

Acceleration

Gravity

Weight

Where's the science?

Write about it here...

Show it over there -->

Use **BOLD and HIGHLIGHT to make words stand out...





Picture with label and arrows Use PicMonkey

Vocabulary

Speed

Force

Acceleration

Gravity

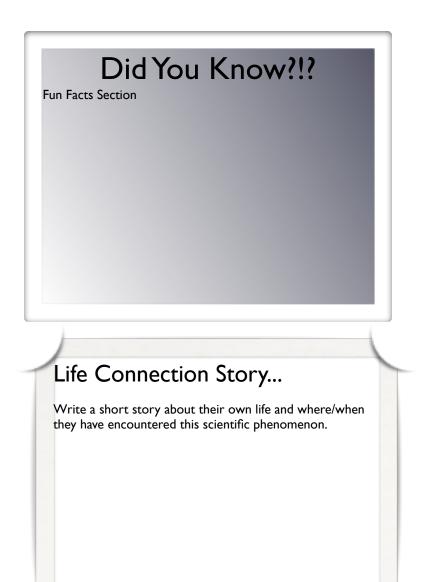
Weight

Where's the science?

Write about it here...

Show it over there -->

Use **BOLD and HIGHLIGHT to make words stand out...





Picture with label and arrows Use PicMonkey

<u>Vocabulary</u>

Speed

Force

Acceleration

Gravity

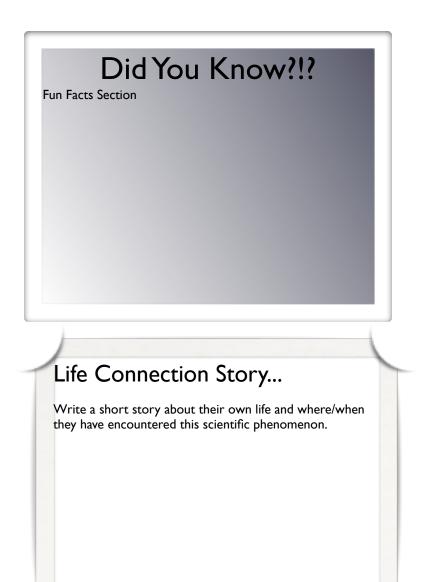
Weight

Where's the science?

Write about it here...

Show it over there -->

Use **BOLD and HIGHLIGHT to make words stand out...





Picture with label and arrows Use PicMonkey

<u>Vocabulary</u>

Speed

Force

Acceleration

Gravity

Weight