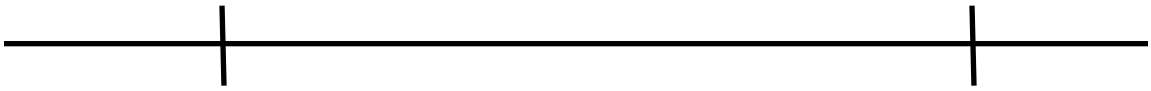
Forces & Motion Notebook

What is motion? _____

_____

During what years did Isaac Newton live?



What did Newton's three laws of motion deal with?



SAMPLE

What does the law of inertia say? _____

_____

_____

How do you use force to stand up or take a step? _____

_____

What force is responsible for actions such as slowing a ball as it rolls?

_____

What can a lack of this force cause? _____

_____

What are two ways mentioned to reduce friction? _____

_____

_____

Why does a fluid reduce friction? _____

_____

_____

_____

Illustrate one way a gas can cause friction.

SAMPLE

What is mass? _____

_____

The more force you exert on something, the more its what will change? _____

_____

What does it mean to say that for every action, there is an equal and opposite reaction?

_____

_____

_____

_____

Illustrate an example that demonstrates Newton's third law of motion.



What is the force that every object in the universe uses to attract everything else around it?

_____

Name three ways gravity helps us.



What causes an object to have a stronger pull of gravity? _____

_____

In addition to mass affecting gravity, what else affects the strength of gravity's pull?

_____

_____

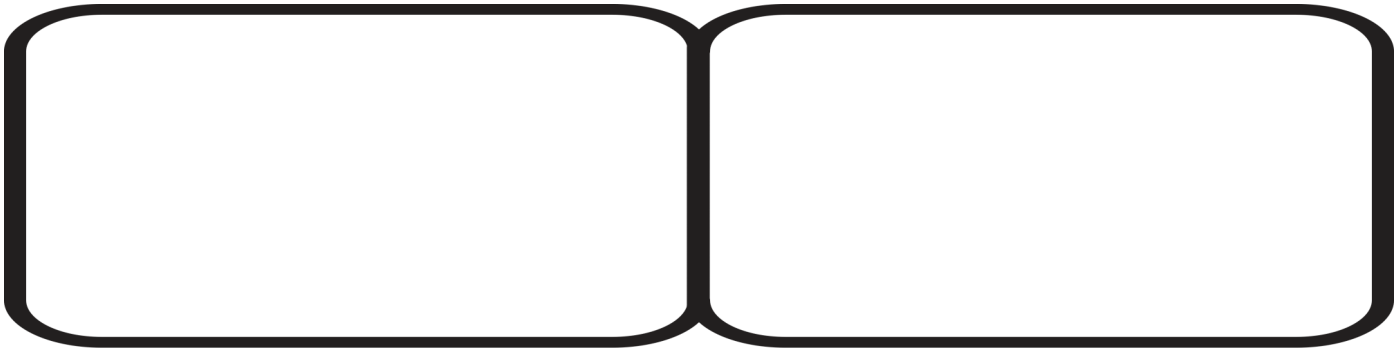
How can we see evidence of the pull of the moon's gravity on Earth? _____

_____

_____

_____

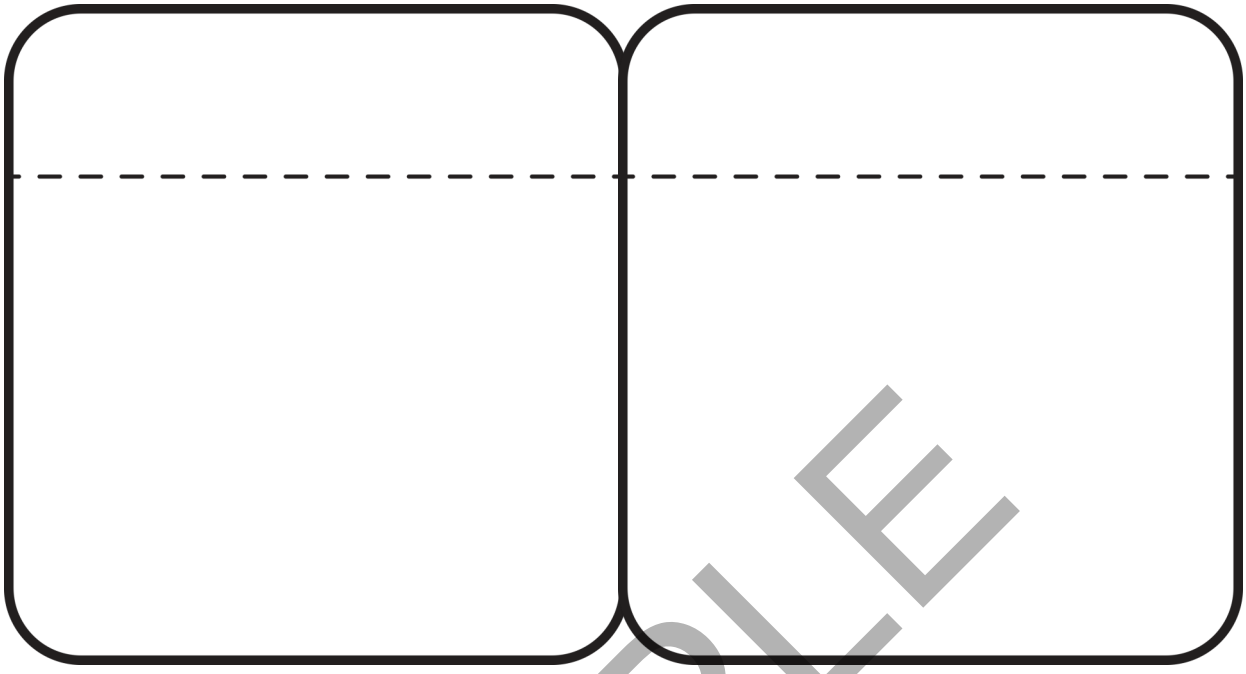
What are two characteristics of a magnet?



SAMPLE

Can a magnet pull on anything? _____

Name and illustrate two common kinds of magnets.



What does every magnet have two of? _____

What always surrounds a magnet? Illustrate and label an example.



SAMPLE