Explain a real-world example of how friction increases an object's speed.

Explain a real-world example of how friction decreases an object's speed.

Write the formula for speed:

Velocity is speed AND _____ in which an objects is traveling.

Velocity can be changed by:

Write the formula for acceleration:

When an object's velocity decreases, the object experiences _____.

Newton's 1st Law of Motion: An object will travel in a straight line at a _____ until a _____ changes its motion. An object at _____will stay at _____ until a _____ causes it to move.

The _____ the mass, the greater the inertia.

Newton's 2nd Law of Motion: If you apply a force to an object, the object _____ in the _____ of the force.

Give an example of negative acceleration (deceleration).

Factors that determine an object's acceleration:
1.

2.

If all objects accelerate at the same rate when falling, why don't they hit the ground at the same time?

Newton's 3rd Law of Motion: For every action, there is an _____ and _____ reaction.

Forces always occur in _____.

Give a real-world example of Newton's 3rd Law of Motion.

Forces/Motion Guided Reading Notes

A force is a _____ or a _____ on an object.

List the 3 ways we measure motion:
1.

2.

3.

Why do the planets orbit the sun?

The _____ the mass of an object, the _____ the gravitational force between the two objects.

The _____ the distance between two objects, the _____ the gravitational force.