

Force and Motion

Directions: Use the words in the word bank to complete a summary about Force and Motion. Use each word only once.

speed	reference	direction	velocity	acceleration
forces	motion	position	friction	gravity

You can describe the _____ of an object by saying it is moving in a straight line or is curved around another object. You can also describe where an object is by its _____ in relation to another object. The second object acts as a _____ point. When an object changes position, you know it has motion.

Motion can also be described by finding an object's _____, or how fast or slow it moves in a certain amount of time. In addition, you can describe the object's speed AND direction together. This is called _____.

There are some ways objects in motion are affected. _____, or pushes and pulls, affect the motion of an object. _____ is a force that pulls objects down to Earth. _____ is a force that slows things down or can even make them stop.

Did you know acceleration means more than the increase of an object's speed? It also describes an object that is slowing down or changing _____. Since acceleration is a change in speed or direction, that means, _____ is a change in velocity!

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You can describe the **MOTION** of an object by saying it is moving in a straight line or is curved around another object. You can also describe where an object is by its **POSITION** in relation to another object. The second object acts as a **REFERENCE** point. When an object changes position, you know it has motion.

Motion can also be described by finding an object's **SPEED**, or how fast or slow it moves in a certain amount of time. In addition, you can describe the object's speed AND direction together. This is called **VELOCITY**.

There are some ways objects in motion are affected. **FORCES**, or pushes and pulls, affect the motion of an object. **GRAVITY** is a force that pulls objects down to Earth. **FRICTION** is a force that slows things down or can even make them stop.

Did you know acceleration means more than the increase of an object's speed? It also describes an object that is slowing down or changing **DIRECTION**. Since acceleration is a change in speed or direction, that means, **ACCELERATION** is a change in velocity!