Name: _____ Answer Key _____ Date: _____ Class: _____

Newton's First Law
Exit Ticket

Use the following vocabulary words to fill in the blanks. Each word is used once.

contact	inertia	speed	rest	velocity
noncontact	motion	force	Galileo	acceleration

When we measure distance per unit time (a rate), we are measuring _____speed_____. When we also note the direction, for example if we say we are biking due north at 5 meters per second, we are measuring _____velocity_____. A change in velocity is defined as __acceleration__.

Interaction between two objects made of matter results in a _____force_____. We distinguish two categories of forces: _____Contact_____ forces are those in which matter in the objects touches; examples include friction, air resistance and spring forces. ____Non-contact___ forces do not require physical interaction, but instead are the result of objects in a field, such as with gravity, electricity and magnetism.

Newton's first law states that "an object in motion tends to _____stay in motion_____; an object at rest tends to _____stay at rest_____." Many years before Newton wrote this law, _____Galileo_____ stated the same idea as the principle of _____inertia_____.