Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_

6th grade – Ch. 8 vocabulary “Motion and Forces”

***Quick Vocabulary***

**Lesson 1**

1. **acceleration** measure of how quickly the velocity of an object changes
2. **constant** not changing
3. **displacement** distance between an object’s initial position and its final position
4. **motion** process of changing position
5. **position** object’s distance and direction from a reference point
6. **reference point** starting point used to descibe the location, or position, of an object
7. **speed** distance an object moves in a unit of time
8. **velocity** speed and direction of a moving object

**Lesson 2**

1. **biologist** scientist who studies living things
2. **distance-time graph** graph that shows how distance and time are related, with distance on the *y*-axis and time on the *x*-axis
3. **speed-time graph** graph that shows how the speed of an object changes during each interval of time, with speed on the *y*-axis and time on the *x*-axis

**Lesson 3**

1. **air resistance** frictional force between air and objects moving through it
2. **contact force** push or pull on one object by another object that is touching it
3. **force** push or pull on an object
4. **friction** contact force that resists the sliding motion of two surfaces that are touching
5. **gravity** attractive force that exists between all objects that have mass
6. **inertia** tendency of an object to resist a change in its motion
7. **Newton’s first law of motion** states that if the net force acting on an object is zero, the motion of the object does not change
8. **Newton’s second law of motion** states that the acceleration of an object is equal to the net force exerted on the object divided by the object’s mass
9. **Newton’s third law of motion** states that for every action there is an equal and opposite reaction
10. **noncontact force** force that one object can apply to another object without touching it

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