**Vocabulary of Motion Name: Dessa Shapiro**

| **Vocabulary Word** | **Definition**: Come up with your own composite definition in your own words which is meaningful to **you**. Pull from multiple sources if need be. DO NOT copy something from the glossary and move on. | **Diagram or Contextual Anchor: Draw** a diagram or picture (best) that anchors this word for you so you can recall the word and it’s meaning. You may also find an image from and paste it in (bronze medal) |
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| force | agent that results in accelerating or deforming an object. | Forces and Motion: Basics - Force | Motion | Friction - PhET Interactive  Simulations |
| mass | a property of a physical body and a measure of its resistance to acceleration when a net force is applied. | Physics - Particle Masses Don't Budge |
| acceleration | change in velocity divided by time interval over which it occurred. | What is acceleration? (article) | Khan Academy |
| momentum | product of the mass of a particle and its velocity. | Physics Lesson Types Force Movement Speed Stock Vector (Royalty Free)  1688223487 |
| inertia | tendency of an object not to change its motion. | What are the different types of Inertia? - Quora |
| impulse | a certain amount of force you apply for a certain amount of time to cause a change in momentum. | Impulse |
| speed | ratio of distance traveled to time interval. | Measuring the Speed of an Object: Physics Lab - Video & Lesson Transcript |  Study.com |
| gravity | the universal force of attraction acting between all matter. | Exploring physics concepts with a gravity well — Science Learning Hub |
| Weight vs. mass | mass is the amount of matter in a material, while weight is a measure of how the force of gravity acts upon that mass | Mass vs Weight - The Difference Between Mass and Weight |
| Kinetic energy | energy of object due to its motion. | Derivation Of Kinetic Energy - Detailed Kinetic Energy Derivation |
| Potential energy | energy of object due to its position or state. | An Introduction to Potential Energy | Learning Resource |
| Newton’s 1st Law | if a body is at rest or moving at a constant speed in a straight line, it will remain at rest or keep moving in a straight line at constant speed unless it is acted upon by a force. | The Physics of Productivity: Newton's Laws of Getting Stuff Done |
| Newton’s 2nd Law | the acceleration of an object is dependent upon two variables - the [net force](http://www.physicsclassroom.com/Class/newtlaws/u2l2d.cfm) acting upon the object and the mass of the object. The acceleration of an object depends directly upon the net force acting upon the object, and inversely upon the mass of the object. | Newton's Laws |
| Newton’s 3rd Law | that for every action (force) in nature there is an equal and opposite reaction. | What is Newton's third law? (article) | Khan Academy |
| Centripetal acceleration | property of the motion of a body [traversing](https://www.merriam-webster.com/dictionary/traversing) a circular path. | Proof of Centripetal Acceleration Angle $\theta$ is the same? - Physics  Stack Exchange |

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