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Newton Vocab

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| **Across**  **2.** a property of matter by which it continues in its existing state of rest or uniform motion in a straight line, unless that state is changed by an external force:  **7.** the action or process of moving or being moved  **9.** a vehicle's capacity to gain speed within a short time:  **10.** the resistance that one surface or object encounters when moving over another  **11.** the rate at which someone or something is able to move or operate  **13.**  International System of Units (SI) derived unit of force  **14.** the speed of something in a given direction  **15.** strength or energy as an attribute of physical action or movement:  **16.** a coherent, typically large body of matter with no definite shape | **Down**  **1.** an amount of space between two things or people:  **3.** a body's relative mass or the quantity of matter contained by it, giving rise to a downward force; the heaviness of a person or thing  **4.**  is a force that changes the position, speed or direction of the object to which it is applied.  **5.**  two forces acting in opposite directions on an object, and they are equal in size.  **6.** Friction between an object and air.  **8.** the force that attracts a body toward the center of the earth, or toward any other physical body having mass.  **12.** a device that measures and records the quantity, degree, or rate of something: |