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| **Across**  **5.** The change of momentum of an object when the object is acted upon by a force for an interval of time.  **6.** A physical vector quantity; both magnitude and direction are needed to define it.  **7.**  Units of Length.  **8.** The resistance of any physical object to any change in its state of motion.  **9.** The quantity of matter that a body contains, as measured by its acceleration under a given force or by the force exerted on it by a gravitational field. | **Down**  **1.**  A vector quantity that refers to "how far out of place an object is"; it is the object's overall change in position.  **2.** The rate of change of velocity per unit of time.  **3.** The product of mass and velocity.  **4.** The base unit of mass.  **10.**  Being a scalar quantity, is the rate at which an object covers distance. |