Force and Motion Vocabulary

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| **Across**  **3.** "Law of Inertia"  **5.** \_\_\_\_\_ is a change in velocity  **8.** Unbalanced forces that are not opposite and equal  **11.** Maximum velocity reached by a falling object  **13.** Velocity is added by \_\_\_\_ addition (like displacement)  **14.** Tendency of an object to resist any change in it's motion  **17.** The product of an object's mass amd velocity  **18.** When one object exerts a force on a 2nd object, the 2md exerts an equal but opposite force  **19.** The acceleration of an object is directly proportional to the net force and inversely proportional to its mass | **Down**  **1.** The force of gravity on an object  **2.** Straight line distance (and direction) between the start and end  **4.** When an object is faling under only the influence of gravity  **6.** A \_\_\_\_\_ \_\_\_ graph can be used to determine speed  **7.** The motion of a falling object after it is given an initial forward velocity  **9.** Force is measured in \_\_\_  **10.** Ratio of distance to time  **12.** Force of attraction between any two objects in the universe  **15.** A force that resists the motion of objects as they come in contact  **16.** A push or pull that one body exerts on another  **20.** The length of a path between two points |