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Force, Motion, and Newton's Laws Crossword Puzzle

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| **Across**  **3.** The rate at which velocity changes over time.  **6.** An object at rest stays at rest, and an object that is in motion stays in motion.  **9.** A push or pull.  **11.** The speed of an object is rarely constant.  **13.** A force of attraction between objects due to their mass.  **16.** A standard unit of measurement.  **17.** The speed isn't increasing nor decreasing.  **18.** Between bodies separated by distance.  **19.** A unit to express force.  **20.** The acceleration of an object depends on the mass of the object and the amount of force applied. | **Down**  **1.** An increase in velocity.  **2.** A decrease velocity.  **4.** A metric unit of measurement to measure LONG distances.  **5.** A force exerted during contact between objects.  **7.** The speed of an object in a particular direction.  **8.** The tendency of all objects to resist a change in motion, so an object will not move until a force makes it move.  **10.** Whenever one object exerts a force on a second object, the second object exerts an equal and opposite force on the first object.  **12.** A change in position over time.  **14.** A quantity that has both size and direction.  **15.** The weight of an object, or how much matter is in the object. |