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Newton's Laws of motion Vocaulary

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| **Across**  **6.**  Speed in a given direction  **9.** measured normally by a scale  **10.** The total distance traveled by object divide by the elapsed time  **11.** For every action there is an equal opposite reaction  **13.** Force that produces a nonzero net force  **14.** the resistance that one surface or object when moving over another  **15.** The quantity of motion of a moving body  **16.** The tendency of an object to resist change in its motion  **17.**  The force that pulls objects toward each other | **Down**  **1.** The law of inertia  **2.**  Acceleration of an object depends upon its mass & the force acting upon it  **3.**  The distances an object travels per unit of time  **4.**  Equal Forces acting on an object In opposite directions  **5.** A change of velocity  **7.** The overall force on an object when all individual forces acting on it are added together  **8.** A push or pull  **12.** a consistent, mainly large body of matter |

   gravity       Balanced forces       Velocity       Newton's second law of motion       Speed       Force       Friction       mass       Inertia       Average speed       Unbalanced Forces       Acceleration       Newton's Third Law of motion       Net Force       Newton's first law of motion       Weight       Momentum