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Newton laws

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| **Across**  **3.** The meausurement of the object is 9.8 m/s on earth  **8.** Energy that an object has due to its motion  **10.** Equal forces acting on an object in opposite directions  **12.** The force of gravity on an object at the surface of a planet  **14.** If one object exerts a force on another object, then the second object exerts a force of equal strength in the opposite direction on the first object.  **15.**  Acceleration depends on the objects mass and on the netforce acting on the object.  **17.**  The force that one surface exerts on another when the two surfaces rub against each other  **18.** The distance an object travels per unit of time  **20.** Forces that produce a nonzero net force, which changes an objects motion  **22.**  Unit of measurement for speed | **Down**  **1.** The overall force on an object when all the individual forces acting on it are added together  **2.**  The name often given to the force exerted by the first object on a second object  **4.** The product of an objects mass and velocity  **5.** Stored energy that results from the position or shape of an object, this is usally at its highest at the highest point of a roller coaster  **6.**  The tendency of an object to resist any change in its motion  **7.** An object at rest will remain at rest, and an object moving at a constant velocity will continue moving at a constant velocit, unless it is acted upon by an unbalanced force. Another name is Law of Inertia  **9.** Force is measured in this unit  **11.**  The name often given to the force exerted by the second object back on the first object  **13.** Speed in a given direction  **16.**  The rate at which velocity changes  **19.** the quantity of matter that a body contains  **21.** A push or pull exerted on an object |