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Newton's Law & Friction Crossword Puzzle

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| **Across**  **2.** a force that opposes the direction of motion of an object as it slides over a surface  **4.** if no net forces acts on a system, then the total momentum of the system doesn't change  **6.** unbalanced forces that are not opposite and equal  **8.** a body's relative mass or the quantity of matter contained by it, giving rise to a downward force  **12.** the motion of a falling object after it is given an initial forward velocity  **15.** an object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an unbalanced force  **17.** the fluid friction action on an object moving through the air  **19.** opposes the motion of an object through a fluid  **20.** when gravity is the only force acting on an object | **Down**  **1.** tendency of an object to resist any change in its motion  **3.** the force that acts on rolling objects  **5.** the constant speed that a freely falling object eventually reaches when the resistance of the medium through which it is falling prevents further acceleration  **7.** the SI unit of force--it's equal to the force that will give a mass of one kilogram an acceleration of one meter per second  **9.** is the product of an object's mass and its velocity  **10.** the acceleration of an object is directly proportional to the net force acting on it and inversely proportional to its mass  **11.** the friction force that acts on objects that aren't moving  **13.** when one object exerts a force on a second object, the second object exerts an equal but opposite force on the first  **14.** a push or pull that one body exerts on another  **16.** a force that opposes the motion of objects that touch as they move past each other  **18.** force of attraction between any two objects in the universe |