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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 |