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Mechanical Forces

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| **Across**  **4.** The rate of change in velocity; speeding up, slowing down, or changing direction.  **5.** Force equals mass times acceleration. F=ma  **8.** The change in an object's position with respect to time and in comparison to the position of other objects used as reference points.  **9.** The force that attracts a body toward the center of the earth, or toward any other physical body having mass.  **10.** Force that appears whenever a fluid encounters a solid object.  **12.** When a force is transmitted through a string, rope, or wire.  **14.** The amount of matter in an object.  **15.** Any compression of any two suraces against each other. | **Down**  **1.** 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.  **2.** Arises when an object is being "urged" to slide across a surface or when an object actually is sliding across a surface.  **3.** The speed of something in a given direction.  **6.** An interaction between an object and another object or field that acts to change the motion of the object.  **7.**  The resistance of any physical object to any change in its state of motion.  **11.** An interaction between any two objects of mass.  **13.** The rate at which someone or something is able to move or operate. |