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Energy and Forces

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| **Across****4.** an object in motion's tendency to kepp traveling in the same direction at the same speed, equals mass\*velocity**7.** a force that causes an object to move in a circular pattern - "center seeking"**10.** the transfer of energy**13.** the energy of an object in motion**14.** the rate at which work is done**15.** force that two surfaces exert on each other when they rub against each other | **Down****1.** unit of measure for energy, one of these is equal to 1 kg·m2/s2**2.** combination of an object's potential energy and its kinetic energy**3.** the rate at which velocity changes-- increasing speed, decreasing speed, changing direction**5.** resisitance to change in motion**6.** the energy of an object not in motion**8.** a force that pulls objects towards each other**9.** the ability to do work or cause change**11.** the combination of all forces acting on an object**12.** speed and direction of an object |