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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 |