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Energy and Its Conservation

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| **Across**  **2.** Location at which potential energy is chosen to be zero  **4.** KEo = KEf and PEo = PEf  **7.** Different forms of energy can be inter-converted, but can neither be created nor destroyed.  **8.** Can be stored in rubber bands, bungee chords, trampolines, springs, an arrow drawn into a bow, etc.  **11.**  Energy possessed by any body or particle by virtue of its configuration  **12.** Used in movement  **13.** The capacity of a physical system to perform work  **14.** Matter cannot be created nor destroyed in an isolated system.  **15.** Invariant Mass | **Down**  **1.** Robot Food  **3.** While momentum of the system is conserved, kinetic energy is not  **5.**  A type of thermodynamic system where mass is conserved within the boundaries of the system, but energy is allowed to freely enter or exit the system  **6.** Heat or internal energy of a system  **9.** Another word for potential enegry  **10.** Part of the title of the 1842 short story written by Edgar Allan Poe |

   Energy       Conservation       Kinetic Energy       Stored Energy       Potential Energy       Reference Level       Elastic Pot. En.       Rest Energy       Law of Con. of En.       Mechanical Energy       Thermal Energy       Elastic Collision       Inelastic Collision       Closed System       Pendulum