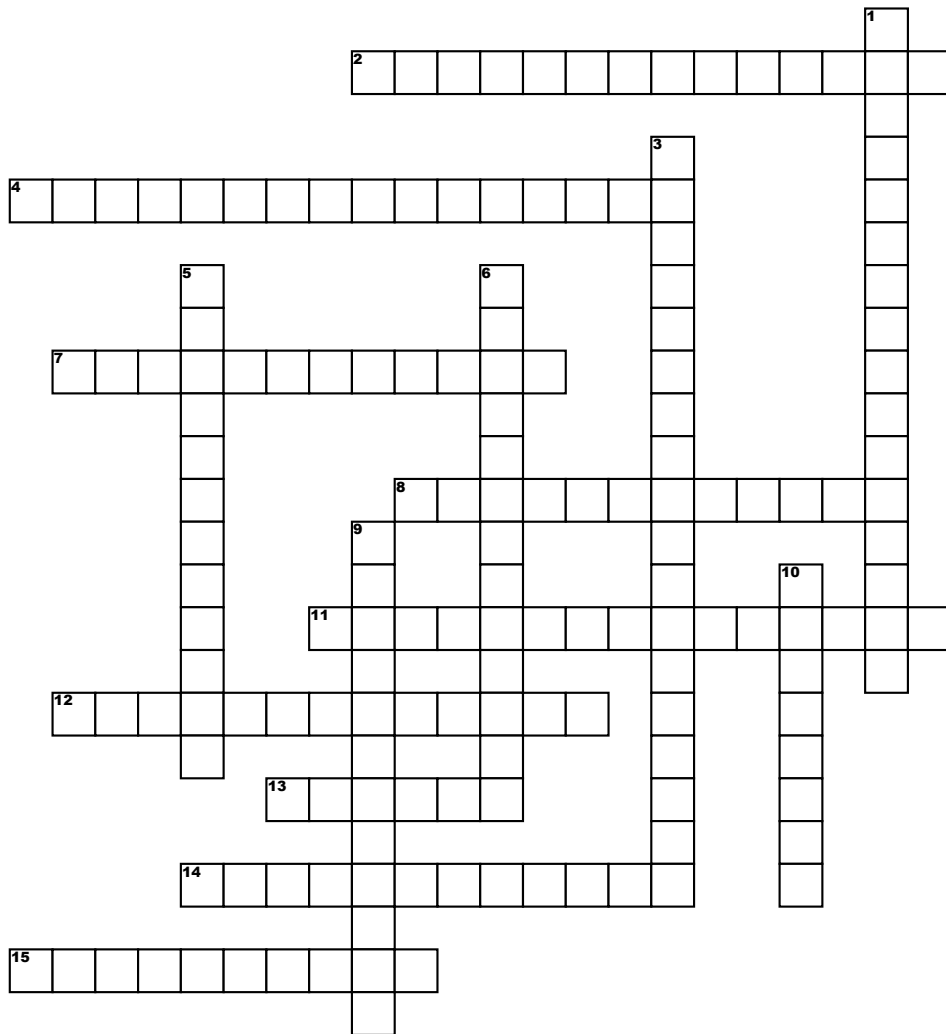


Energy and Its Conservation



Across

- 2. Location at which potential energy is chosen to be zero
- 4. $KE_o = KE_f$ and $PE_o = PE_f$
- 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

- 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 energy
- 10. Part of the title of the 1842 short story written by Edgar Allan Poe

Down

- 1. Robot Food
- 3. While momentum of the system is conserved, kinetic energy is not

Word Bank

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