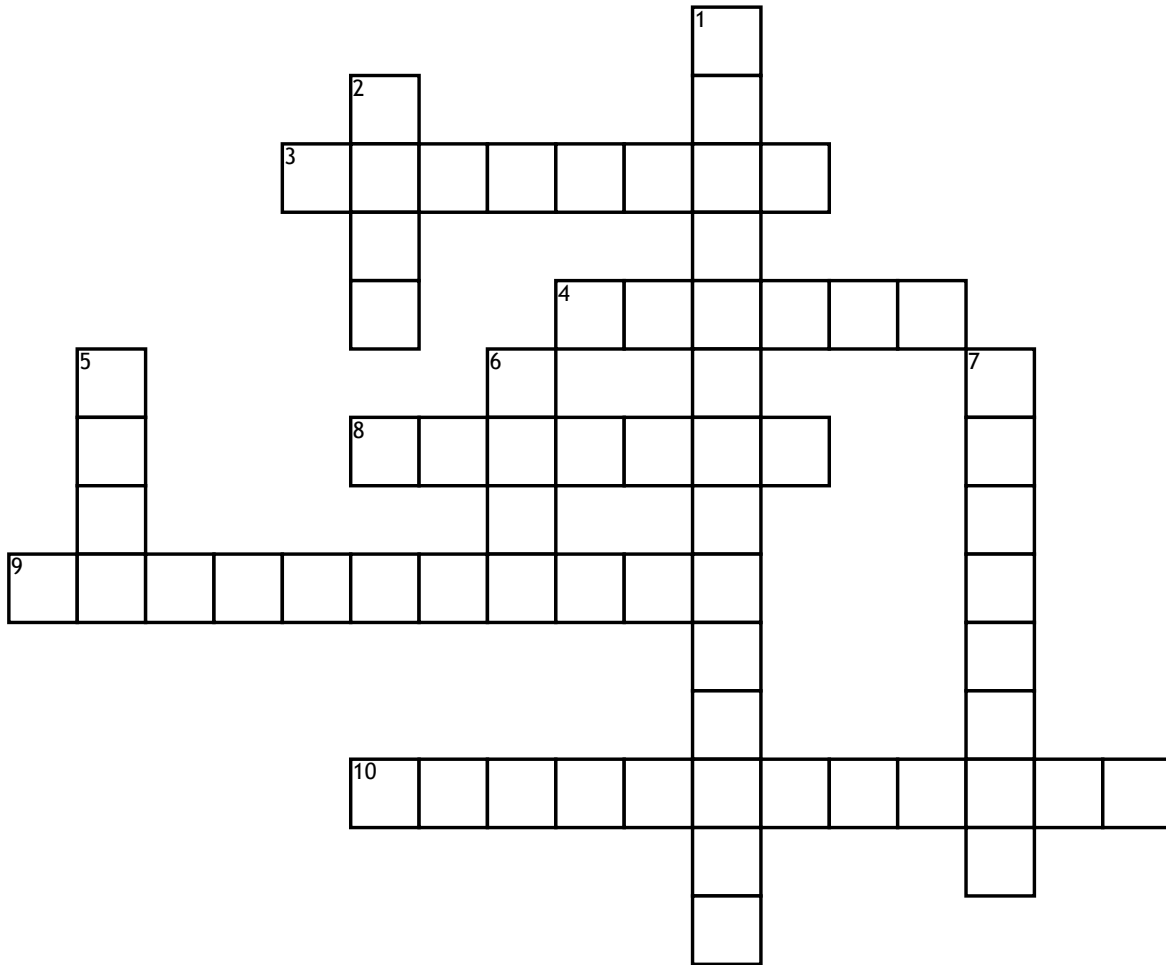


Thermodynamic Concepts



Across

3. Heat required to raise the temperature of a Substance one degree
4. Law of thermodynamics that states if two systems are in equilibrium with a third, then the two systems will also be in equilibrium with each other
8. Total Energy of ALL particles
9. Measure of kinetic energy of individual particles in an object
10. Energy cannot be created or destroyed. This is the law of (blank) of energy

Down

1. Sum of all energy of individual particles within a system
2. If work is done to a system, the system will (lose/gain) energy
5. If heat is transferred out of a system the system will (lose/gain) energy
6. The transfer of thermal energy from a warmer area to a colder area
7. Heat required to raise the temperature of a unit mass by one degree