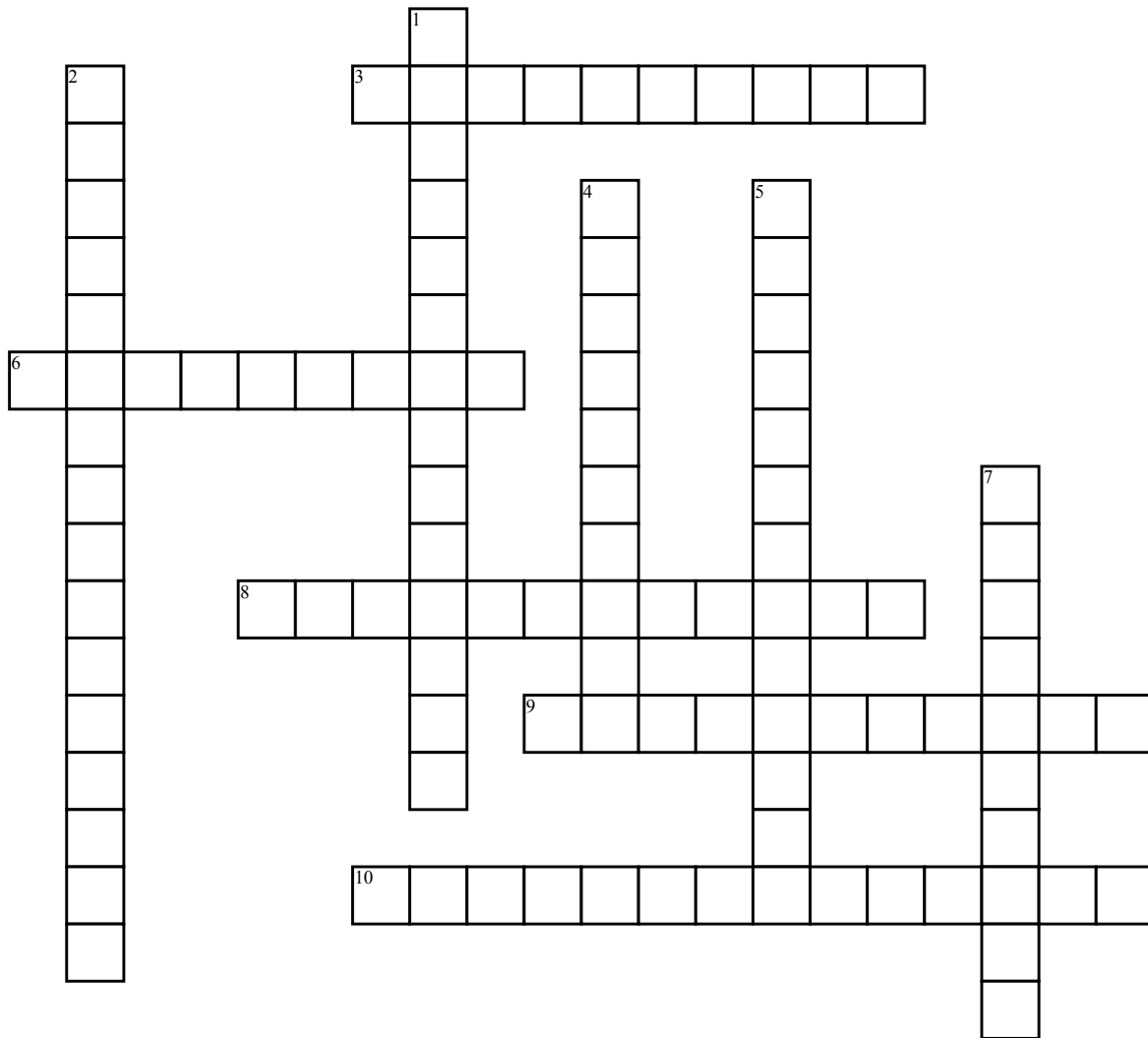


# Thermal Energy



**Across**

- 3. transfer of thermal energy in a fluid by the movements of warmer and cooler fluid
- 6. transfer of energy by electromagnetic waves, such as light and microwaves
- 8. the amount of heat needed to raise the temperature of 1 kg of that material by 1 degree celsius
- 9. the measure of the average kinetic energy of the particles that make up that object
- 10. study of the relationships between thermal energy, heat and work

**Down**

- 1. device that transforms radiant energy from the sun into thermal energy
- 2. material through which thermal energy moves slowly
- 4. converts thermal energy into mechanical energy
- 5. sum of the kinetic and potential energy of all the particles that make up that object
- 7. transfer of thermal energy by collisions between the particles that make up matter