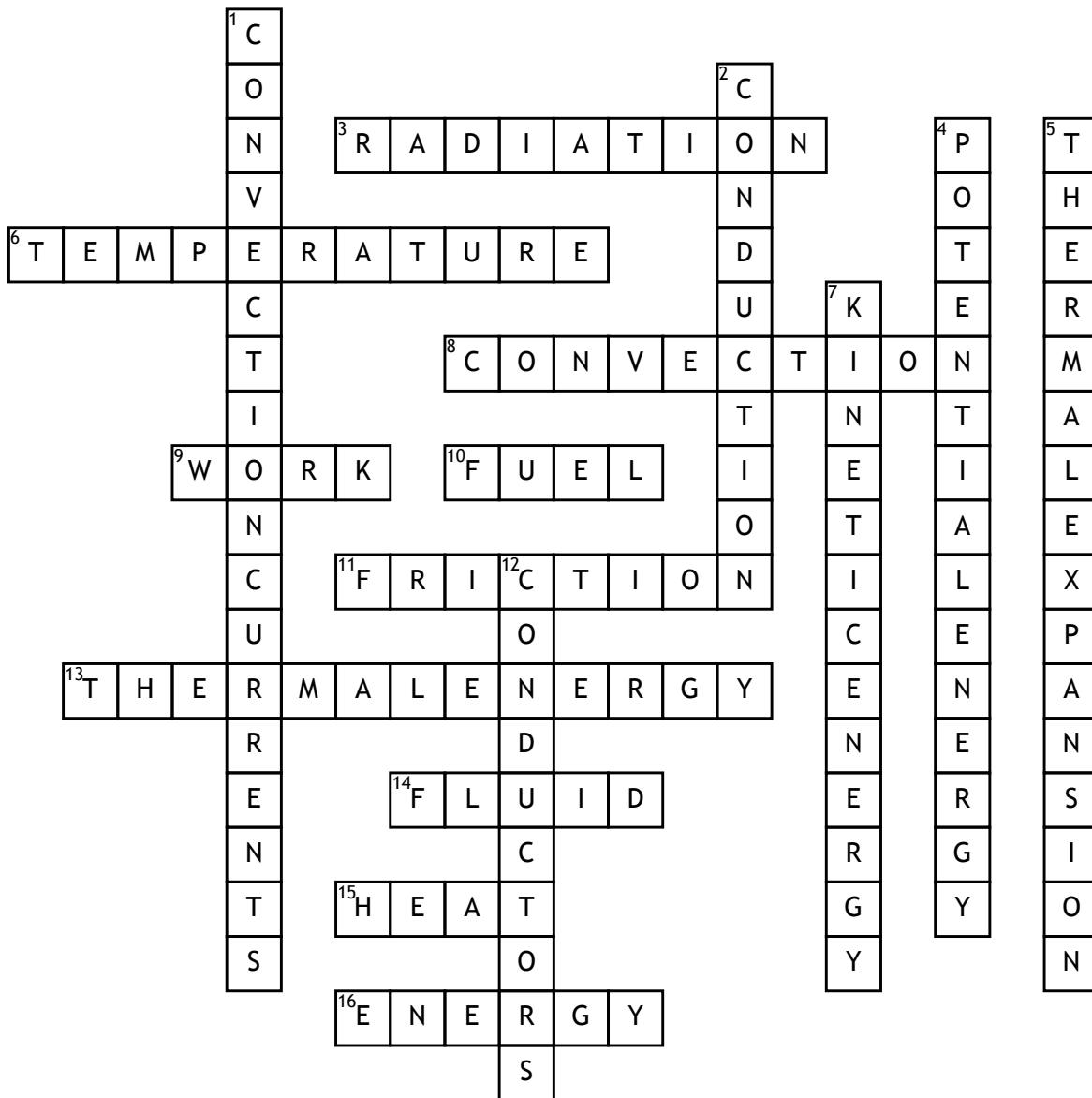


# Heat Transfer: Conduction, Convection, and Radiation



**Across**

- 3. transfer of thermal energy by electromagnetic waves
- 6. measure of the kinetic energy in the particles of a material
- 8. transfer of thermal energy by the movement of matter from one place to another
- 9. transfer of energy when a push or pull makes an object move
- 10. material that can be burned to produce energy

11. force between two surfaces that resists

- 13. movement of energy due to differences in temperature
- 14. material made of liquids or gases that can easily change their locations
- 15. movement of thermal energy from warmer objects to cooler objects
- 16. ability to cause change

**Down**

- 1. movement of fluid particles due to increased temperature and decreased density
- 2. transfer of thermal energy by particle collision in matter
- 4. stored energy
- 5. increase in the volume of a substance when the temperature increases
- 7. energy in motion
- 12. materials which transfer energy easily are called \_\_\_\_\_.