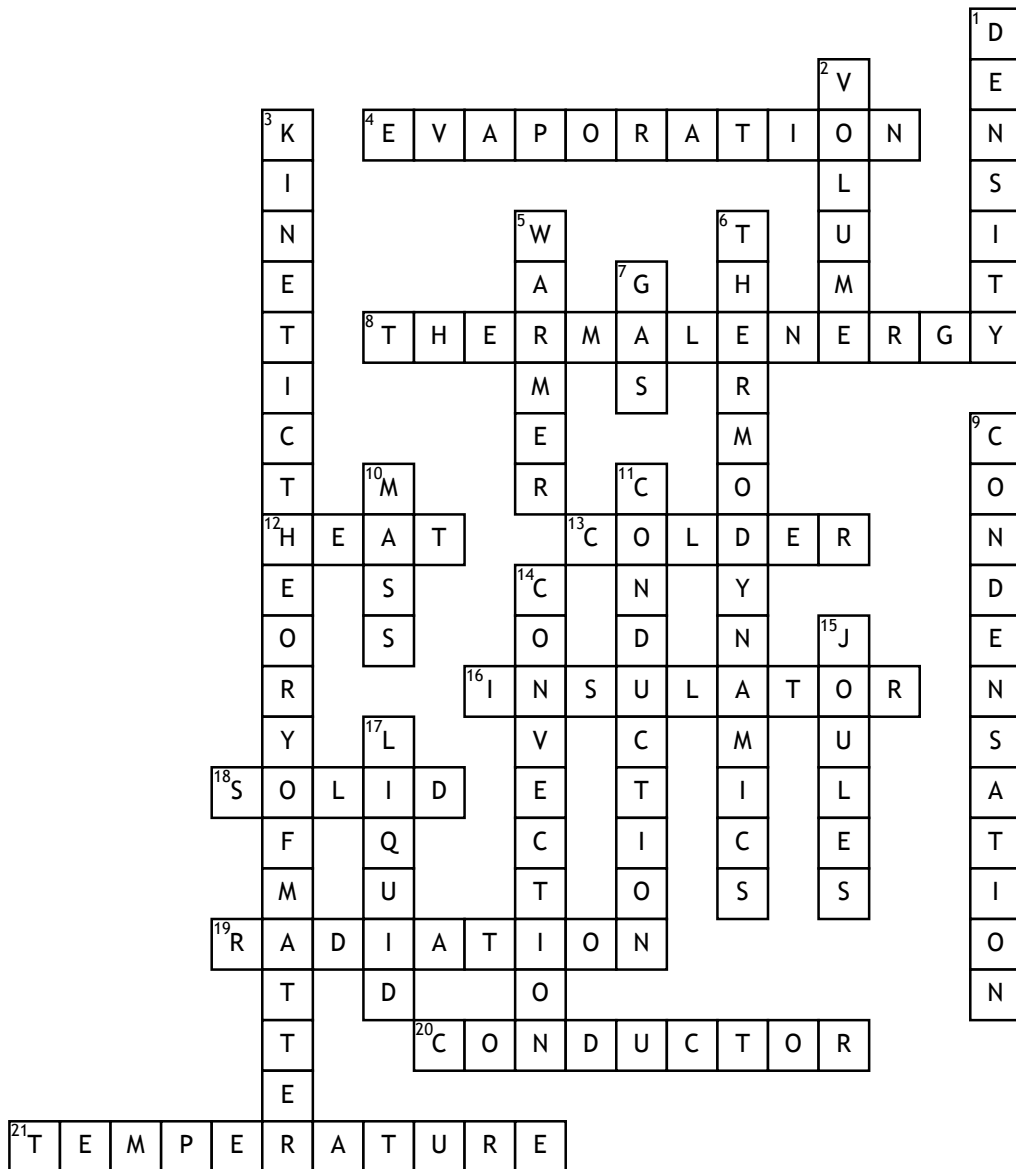


# Heat and Energy Transfers



## Across

4. Adding heat to a liquid causes \_\_\_\_\_

8. Measures the total kinetic energy of particles

12. The transfer of energy from a warmer object to a colder one

13. \_\_\_\_\_ objects are more dense

16. A material that does not transfer heat well

18. State of matter that has tightly packed particles that vibrate

19. How thermal energy transfers as electromagnetic waves

20. A material that transfers heat well

21. Measures the average kinetic energy of particles

## Down

1. The comparison of how much matter there is in a certain amount of space

2. The amount of space an object takes up

3. Theory that states all particles that make up matter are constantly in motion

5. \_\_\_\_\_ objects are less dense

6. Study of heat movement

7. State of matter that has spread out particles that move freely and quickly

9. Removing heat from a gas causes \_\_\_\_\_

10. The amount of matter in an object

11. How thermal energy transfers between solid objects touching

14. How thermal energy transfers through liquids and gases

15. Unit used to measure energy

17. State of matter that has packed particles that move around