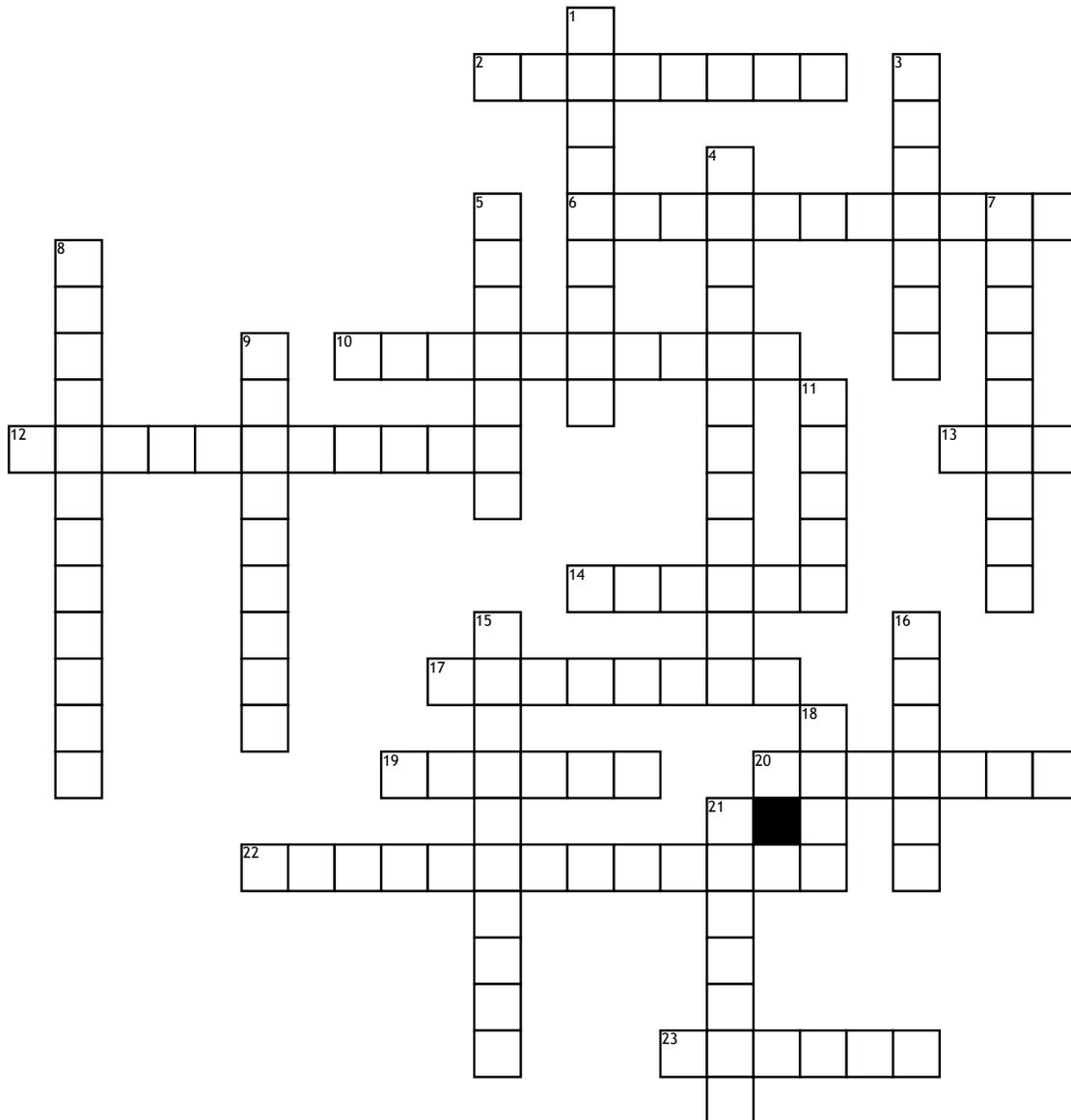


# Kinetic Molecular Theory



**Across**

- 2. phase change from liquid to solid
- 6. when a system is gaining heat
- 10. when heat is leaving a system
- 12. \_\_\_\_: the average energy of the atoms of a substance
- 13. Phase that takes shape of the container & takes up maximum space given
- 14. a state of matter on which the object has a definite shape and volume. particles are tightly packed together. very low energy; particles vibrate.
- 17. Solids have a \_\_\_\_ shape

- 19. As temperatures decrease particles move \_\_\_\_ together
  - 20. phase change from solid to liquid
  - 22. the temperature at which liquids change to solids
  - 23. This phase has a definite volume but not shape
- Down**
- 1. As temperature decreases, kinetic energy of atoms \_\_\_\_
  - 3. motion of atoms in a solid
  - 4. The temperature at which liquid changes to gas
  - 5. As temperatures Increase particles move \_\_\_\_ apart

- 7. As temperature increases, kinetic energy of atoms \_\_\_\_
- 8. phase change from gas to liquid
- 9. another word for atoms
- 11. \_\_\_\_move freely and quickly in gases
- 15. Phase change from Gas to Solid
- 16. everything in the universe is made up of
- 18. \_\_\_\_: The internal energy of a substance. Can be transferred from one substance to another
- 21. \_\_\_\_\_ energy is the energy from motion