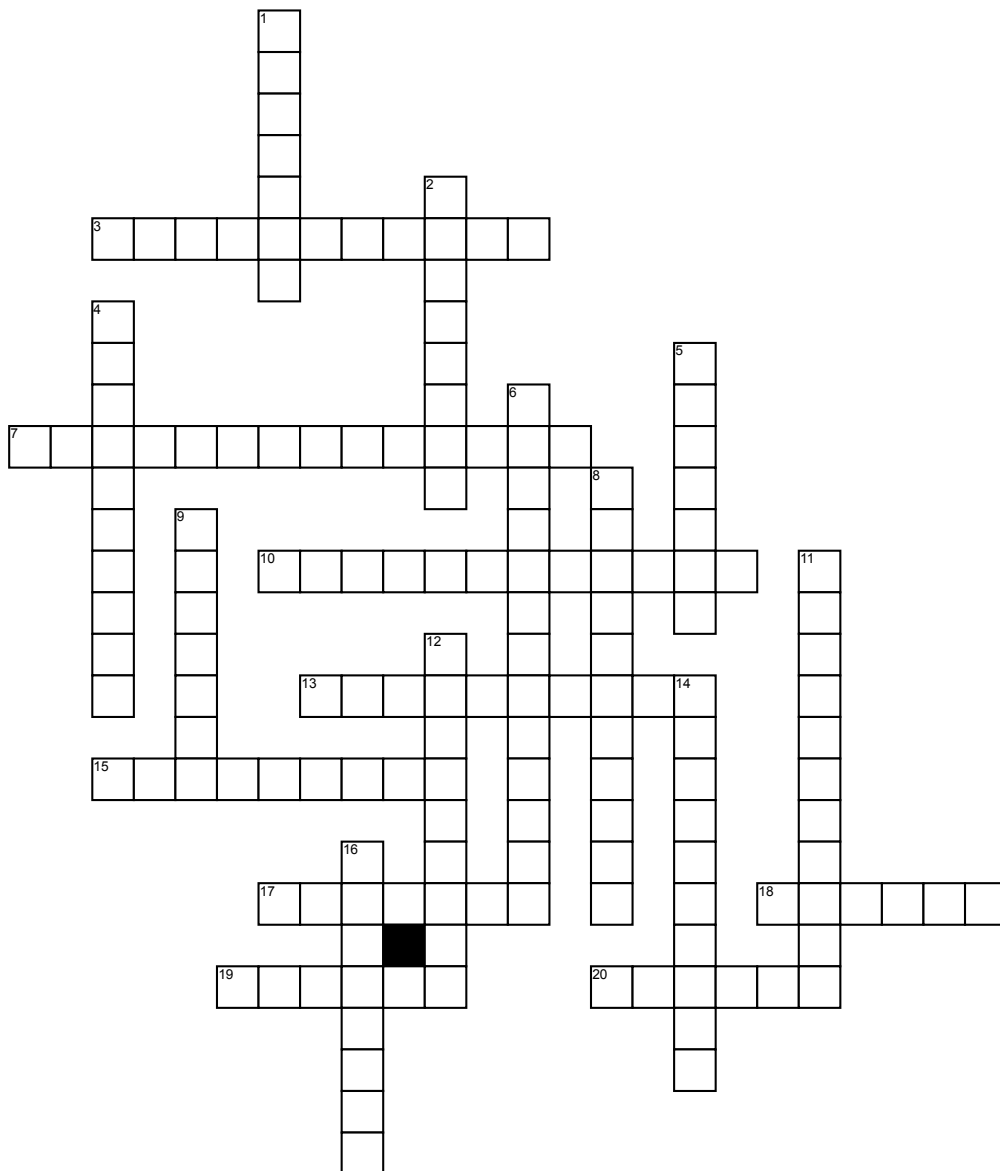


# Physical Properties of Matter



**Across**

- 3. Process that absorbs energy.
- 7. Water molecules have very strong \_\_\_\_\_ forces.
- 10. Process of cooling a liquid below its freezing point without becoming solid.
- 13. The elements which make up the B groups on the periodic table are called \_\_\_\_\_ elements.
- 15. The study of properties of substances and the changes they undergo.

- 17. Atoms with the same number of protons but with a different number of neutrons.
- 18. Hydrochloric Acid is a \_\_\_\_\_ acid.
- 19. Ionic bonding happens between non-metals and \_\_\_\_\_.
- 20. Energy needed to melt one gram of a solid is called Heat of \_\_\_\_\_.

**Down**

- 1. A substance formed when water is absorbed into its structure.

- 2. NH<sub>4</sub>
- 4. Process that releases energy.
- 5. \_\_\_\_\_ determines the atomic number.
- 6. CO<sub>2</sub>
- 8. HClO<sub>4</sub> (aq)
- 9. Br<sub>2</sub>
- 11. Conversion of a solid directly into a gas.
- 12. Water free substance.
- 14. Stablest Atoms.
- 16. Type of bonding that shares electrons.