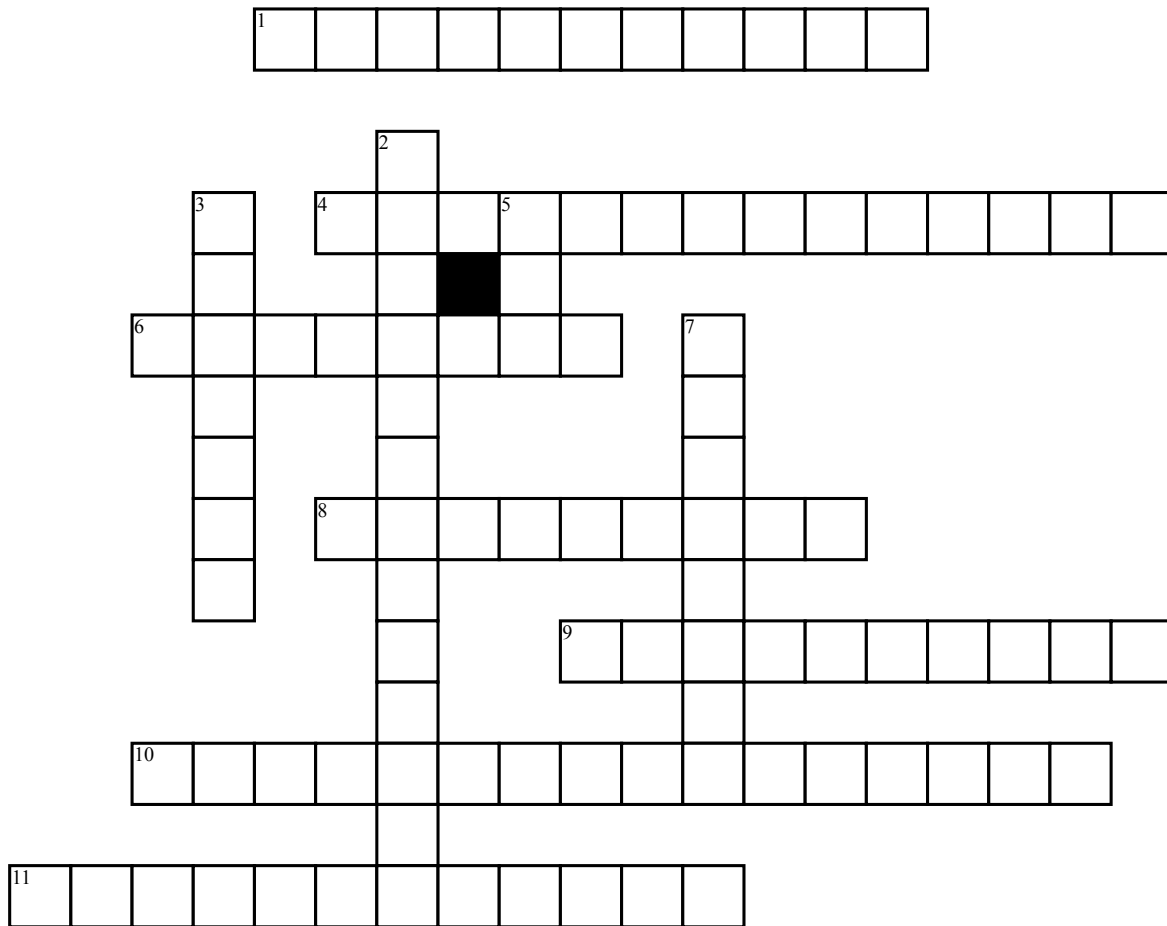


# Physical Science



**Across**

- 1. takes in heat
- 4. A diagram that shows the valence electrons of an atom and the bonds between them
- 6. contains at two atoms chemically bonded together
- 8. A chemical bond between a metal and non-metal where the metal gives it's valence electrons to the non-metal
- 9. gives off heat
- 10. the process of chemicals breaking apart and creating new chemicals

- 11. a chemical bond where atoms share their valence electrons between them

**Down**

- 2. break down into smaller pieces
- 3. An element that has a different number of neutrons, but the same number of protons. A different for of the same element.
- 5. An atom that has a different number of protons than electrons
- 7. two or more different physical forms in which an element may exist