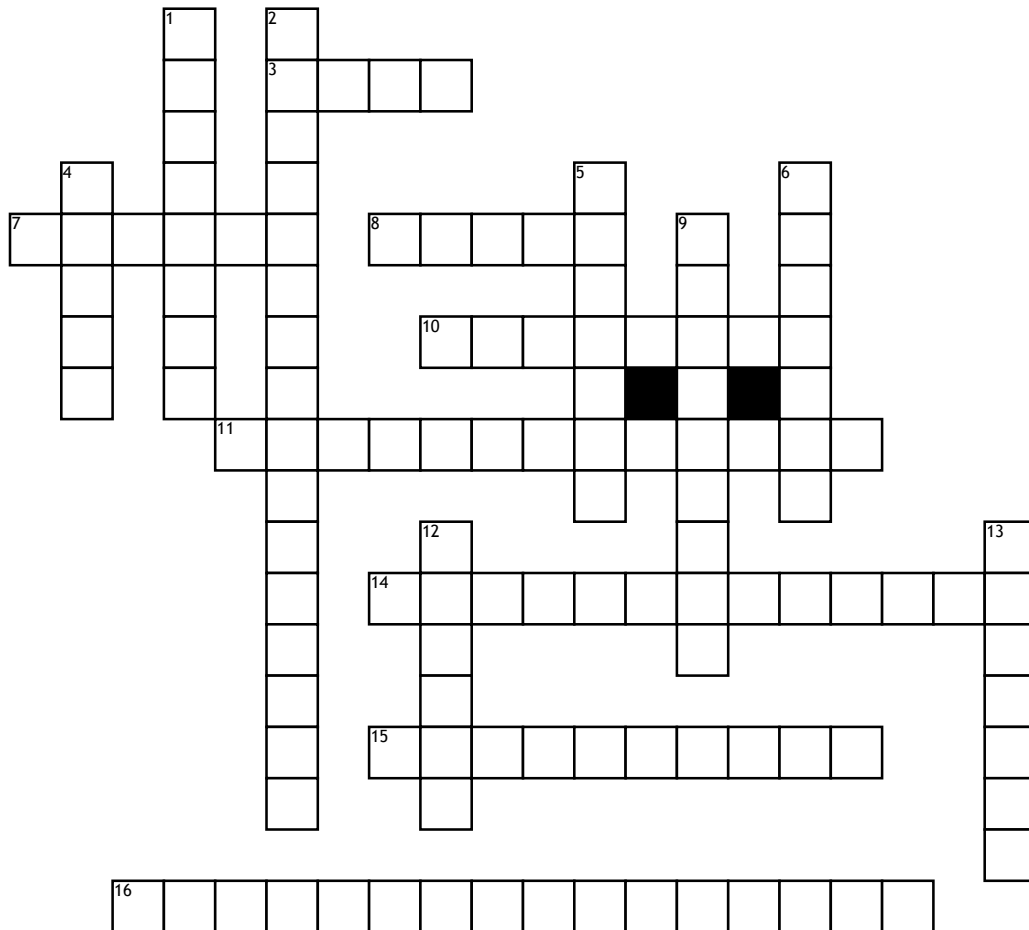


# Atoms and the Periodic Table



**Across**

- 3. The smallest unit of matter
- 7. A subatomic particle that has a positive charge
- 8. An element that conducts heat and electricity
- 10. An element that does not conduct heat or electricity
- 11. What is the area surrounding the center of an atom called?
- 14. A chart that organizes information of all of the known elements based on their properties

- 15. What is the name of the 18th group in the periodic table?

- 16. What are groups 3-12 called on the periodic table?

**Down**

- 1. A subatomic particle that has a negative charge
- 2. Electrons that are located on the outermost energy level
- 4. A vertical column (up to down) on the periodic table
- 5. A substance that cannot be broken down into anything simpler

- 6. Where are the protons and neutrons located in an atom?

- 9. An element that contains some properties of metals and some from nonmetals

- 12. A horizontal row (left to right) in the periodic table

- 13. A subatomic particle that has no charge

**Word Bank**

- |                |         |                   |          |
|----------------|---------|-------------------|----------|
| Nonmetal       | Nucleus | Valence Electrons | Electron |
| Proton         | Neutron | Periodic Table    | Metal    |
| Noble Gases    | Group   | Metalloid         | Atom     |
| Electron Cloud | Period  | Transition Metals | Element  |