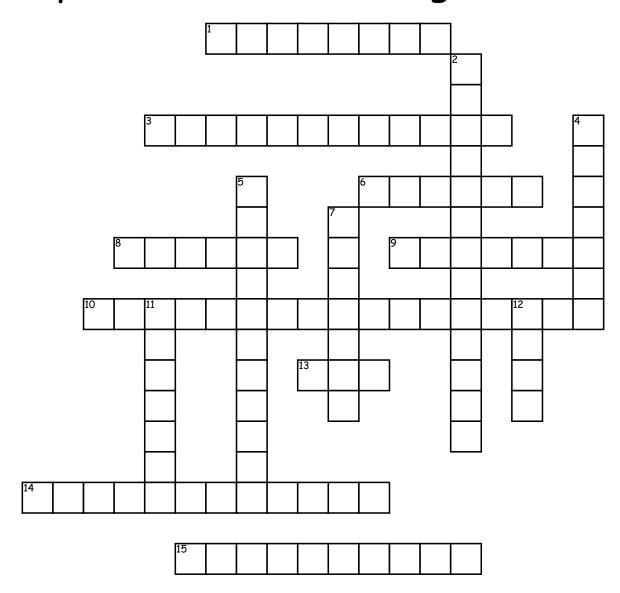
Name:	Date:	Period:

Chapter 4 Understanding the Atom



Across

- 1. a negatively charged particle that moves in the space surrounding the nucleus
- 3. the number of protons in the atom of an element
- **6**. a positively charged particle located in the nucleus
- 8. anything that has mass and takes up space
- 9. atoms of the same element that contain different numbers of neutrons
- 10. the weighted average mass of the mixture of an element's isotopes

- 13. an atom that is no longer neutral because it has gained or lost electrons
- 14. a single wavelength of light that can be seen when the light from an excited element is passed through a prism
- 15. the sum of the number of protons and neutrons the atom has

Down

- 2. a region surrounding an atomic nucleus where an electron is most likely to be found
- 4. a region that is located at the center of an atom and contains most of the atom's mass

- 5. the region of space in which electrons can move about the nucleus of an atom
- 7. a neutral particle which has no charge, located in the nucleus
- 11. a pure substance made from atoms that all have the same number of protons
- 12. a very small particle that makes up all matter