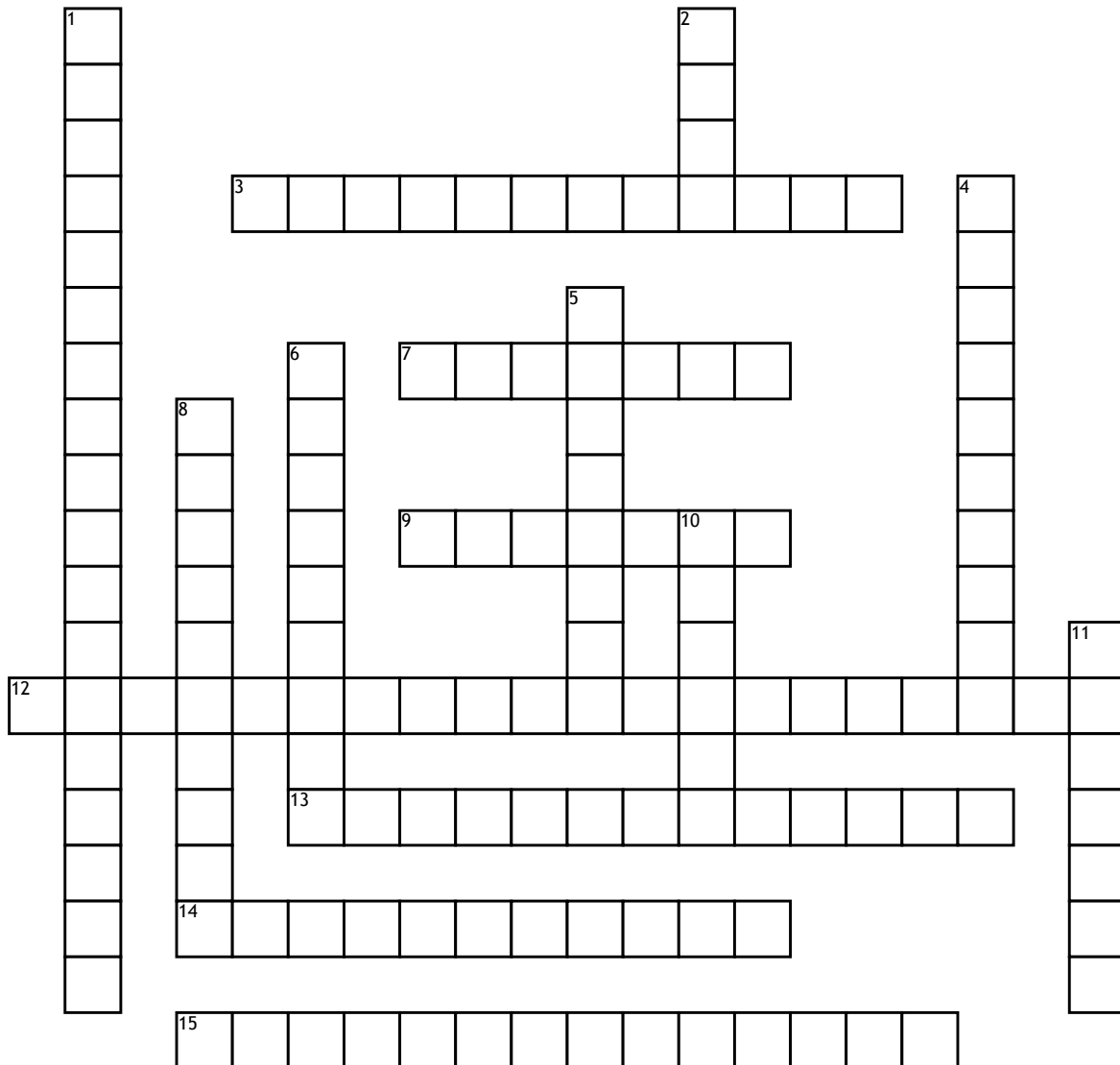


# Chapter 11 vocab. crossword



**Across**

- 3. the number of protons in the nucleus of an atom; the atomic number is the same for all atoms of an element
- 7. in physical science, an atom's central region, which is made up of protons and neutrons
- 9. an atom that has the same number of protons (or the same atomic number) as other atoms of the same element do but that has a different number of neutrons (and thus a different atomic mass)
- 12. the rate at which energy is drawn from a source that produces a flow of electricity in a circuit; expressed in volts
- 13. a region around the nucleus of an atom where electrons are likely to be found

- 14. the interaction that binds protons and neutrons together in the nuclei of atoms; mediated by gluons
- 15. a unit of mass that describes the mass of an atom or molecule

**Down**

- 1. the force of attraction between all masses in the universe; especially the attraction of the earth's mass for bodies near its surface
- 2. the smallest unit of an element that maintains the properties of that element
- 4. the sum of the numbers of protons and neutrons in the nucleus of an atom
- 5. a subatomic particle that has a negative charge

- 6. an interaction between elementary particles involving neutrinos or antineutrinos that is responsible for certain kinds of radioactive decay; mediated by intermediate vector bosons
- 8. the mass of an atom expressed in atomic mass units
- 10. a subatomic particle that has a positive charge and that is located in the nucleus of an atom; the number of protons in the nucleus is the atomic number, which determines the identity of an element
- 11. a subatomic particle that has no charge and that is found in the nucleus of an atom