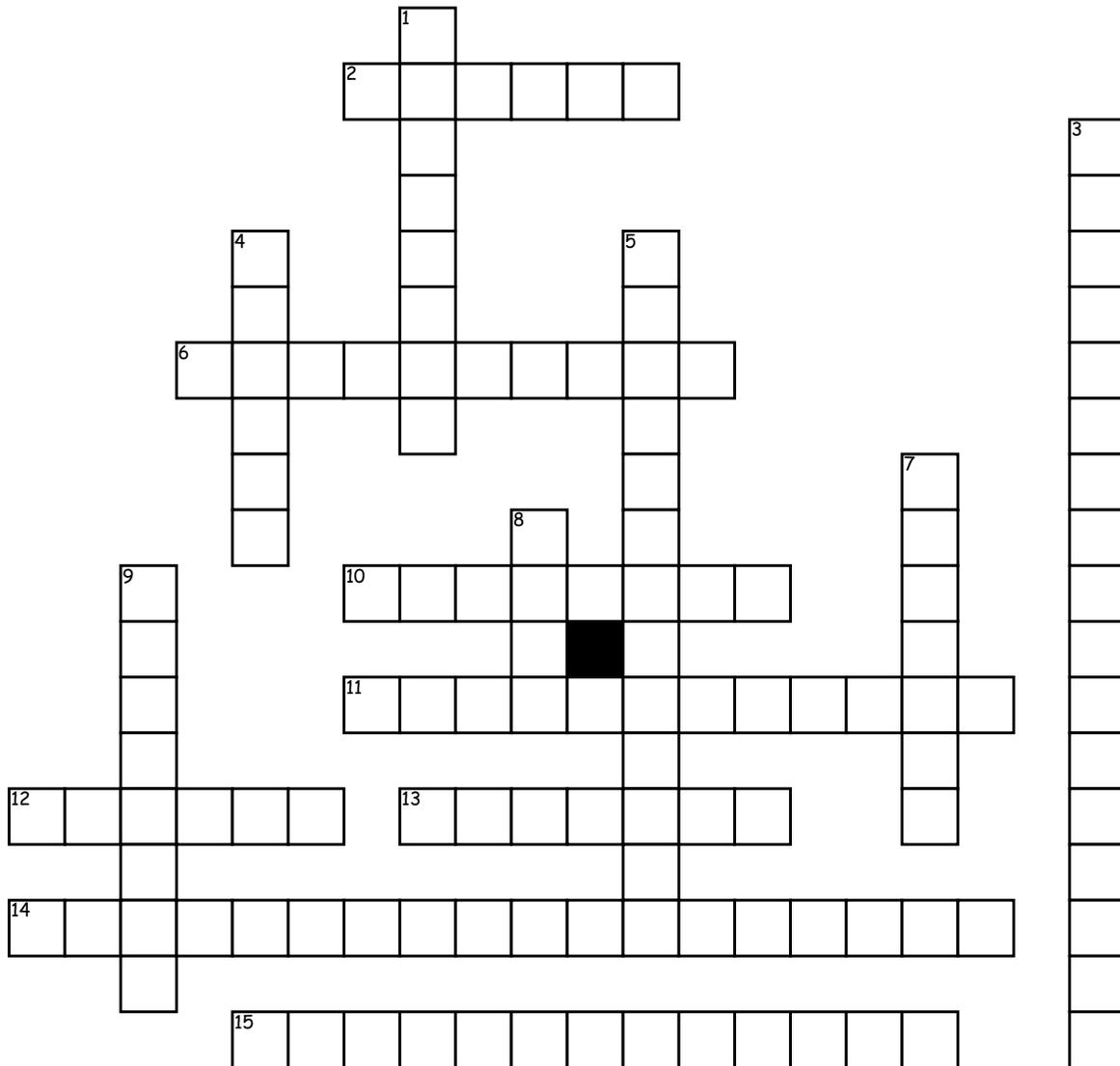


Properties of Atoms and the Periodic Table



Across

- 2. horizontal rows of elements on period table
- 6. sum of the number of protons and neutrons in the nucleus (add protons and neutrons)
- 10. negatively charged particles
- 11. number of protons in an atom is equal to a number (subtract from atomic mass)
- 12. vertical columns in the periodic table (families)

13. positively charged particles

- 14. symbol of the element and dots of valence electrons (another phrase for Lewis Dot Structure)
- 15. elements arranged by increasing atomic number and changes within physical and chemical properties

Down

- 1. neutral charged particles
- 3. weighted-average mass of the mixture of its isotopes

4. smaller particles that make up protons and neutrons (held together with strong nuclear force)

- 5. area around nucleus that contains electrons (empty space)
- 7. location where protons and neutrons are found
- 8. smallest piece of matter that contains property of an element
- 9. same element, different number of neutrons (Carbon-14 or Iodine-131)