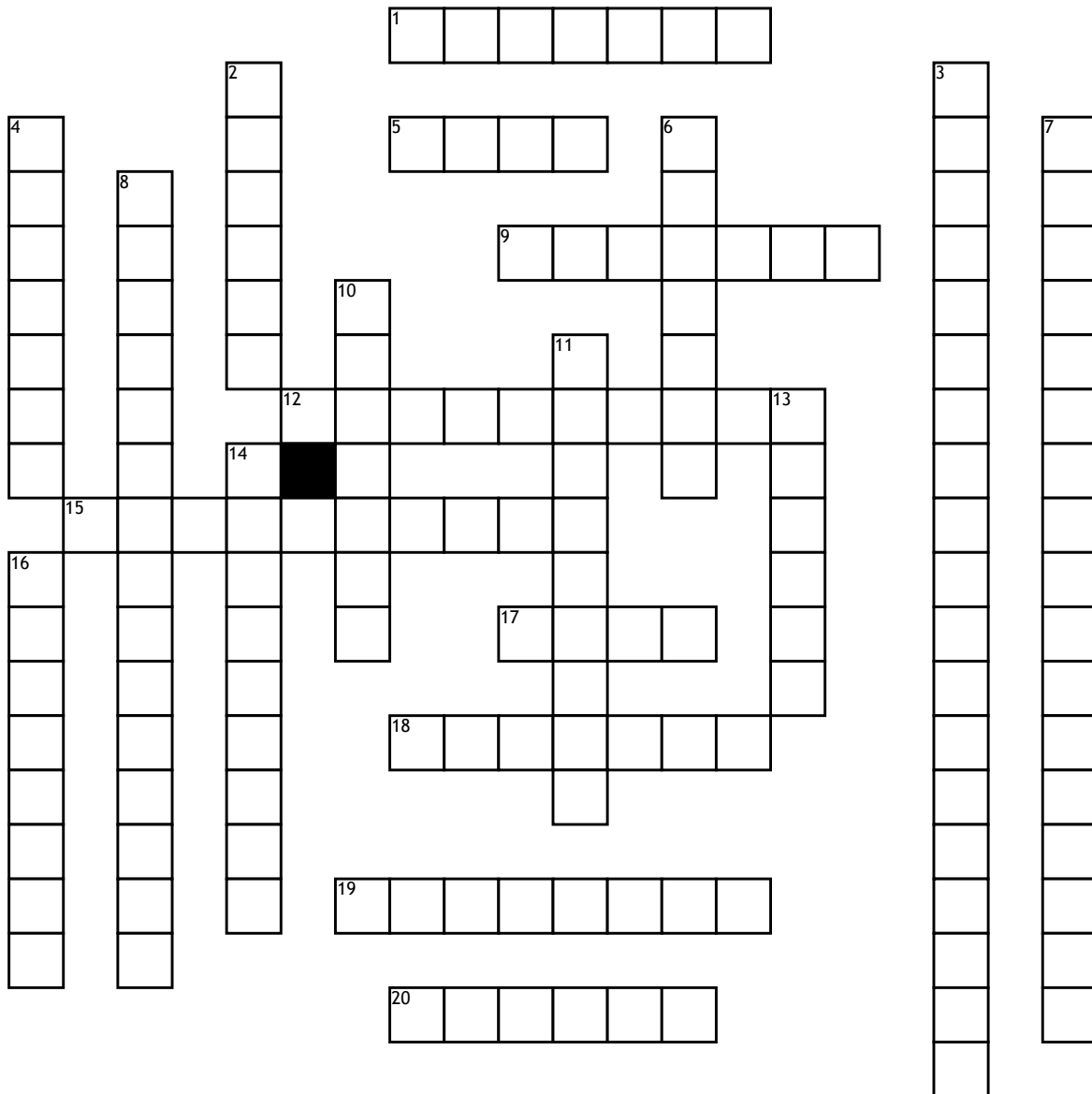


# The History of The Atom



**Across**

- 1. Where electrons are located
- 5. The smallest basic unit of a chemical element
- 9. Found charged particles, were not called protons yet
- 12. Bombarded a gold film with Alpha Particles
- 15. Said that matter is formed of smaller pieces that could not be cut into smaller parts
- 17. Proposed that electrons move around the nucleus in specific layers
- 18. Main part of the atom; contains protons and neutrons

19. Discovered neutrons

20. Origin of the word atom; comes from the Greek meaning indivisible

**Down**

- 2. Positively charged particle; located inside the nucleus of an atom
- 3. The year the electron was discovered
- 4. Elements that have a different amount of neutrons but the same amount of protons and electrons
- 6. Discovered the electron; maker of the plum pudding model

- 7. The year that neutrons were discovered
- 8. The year that charged particles were discovered
- 10. Neutral particle; located inside of the nucleus of an atom
- 11. Defined atom as the part that cannot be divided
- 13. Said atoms are tiny, invisible particles; atoms of one element are all the same; atoms of different elements are different
- 14. Created by Niels Bohr; the common diagram for an atom
- 16. Negatively charged particle; located on orbitals