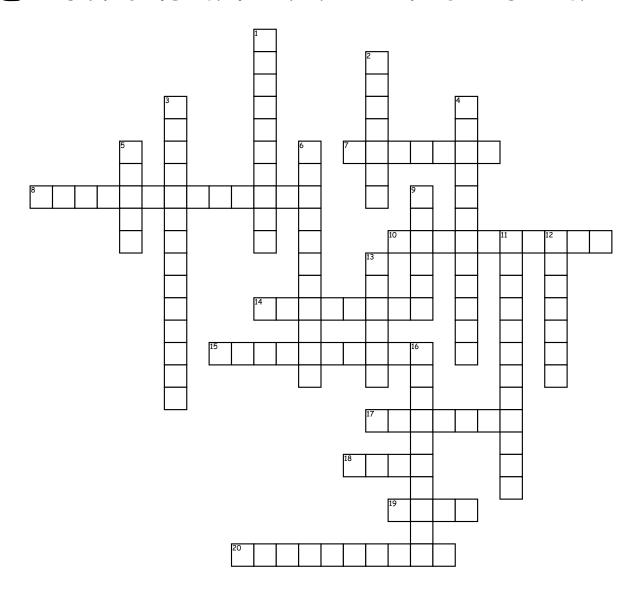
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Electrons and the Periodic Table



Across

- 7. particle that has no electrical charge
- 8. an arrangement of the elements showing the repeating pattern of their properties
- 10. English chemist, inferred that atoms had certain characterisits
- 14. atomic particle that has a negative charge
- 15. suggested that the atoms is mostly empty space but has a positive charge at its center
- 17. an atom that has the same number of protons, and a different number of neutrons from other atoms of the same element

- 18. sugggested that electrons are found only in specific orbits around the nucleus
- 19. basic particle of an element
- **20**. the average of all the isotopes of an element

Down

- 1. The sum of the protons and neutrons in the nucleus of an atom.
- 2. The central core of an atom which contains protons and neutrons
- 3. a one-or-two letter representation of an element
- 4. The number of protons in the nucleus of an atom

- 5. elements in the same verticle column of the periodic table
- A region of an atom in which electrons of the same energy are likely to be found
- 9. atomic particle that has a positive charge
- 11. grew as a series of models that developed from experimental evidence
- 12. Discovered that atoms had negatively charged particles called electrons
- 13. a horizontal row of elements in the periodic table
- 16. proposed that matter was formed of small pieces that could not be cut into smaller parts