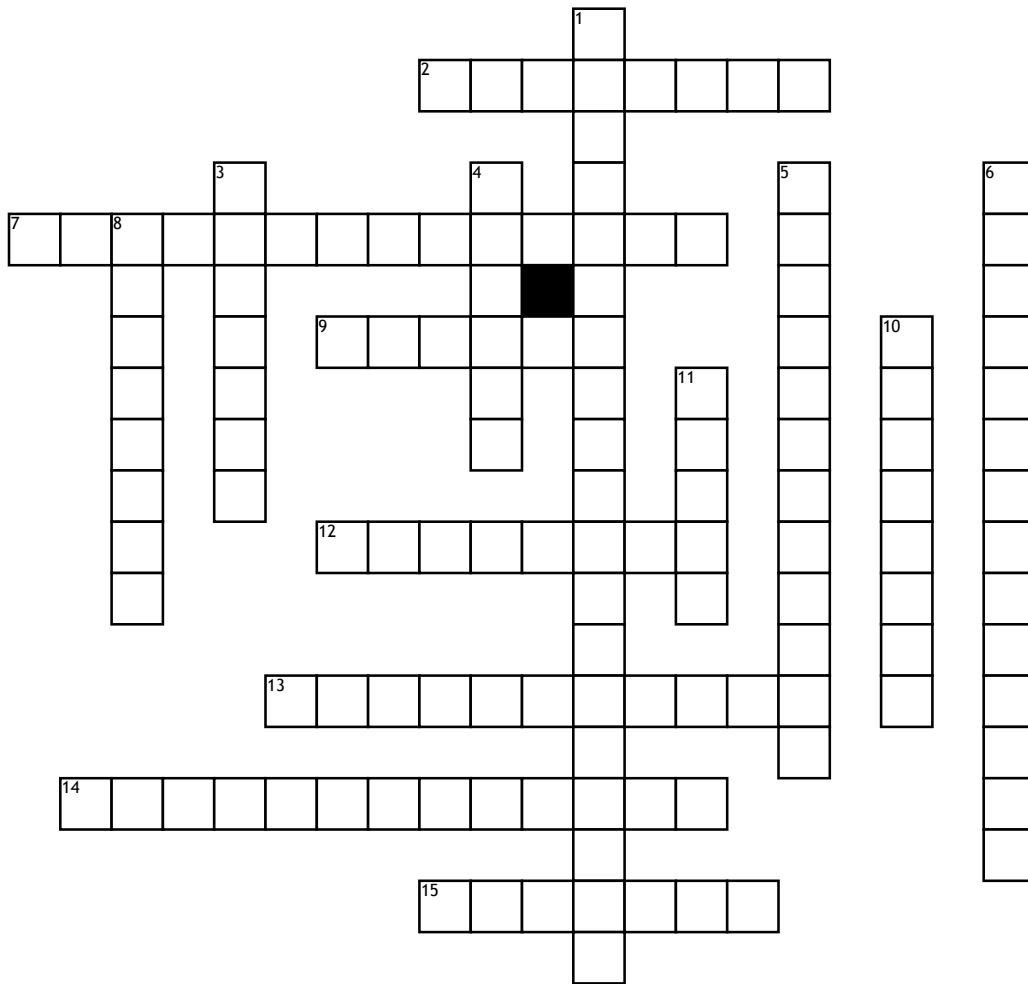


Name: _____

Date: _____

Study Tool



Across

- 2. elements of helium, neon, argon, krypton, xenon, and radon, occupying Group 0
- 7. orbit followed by electrons around an atom's nucleus.
- 9. a stable subatomic particle occurring in all atomic nuclei
- 12. used to classify something
- 13. a huge, often sudden, increase or change in something

- 14. energy levels of a physical system, especially an atom, molecule, etc., that has higher energy than the lowest energy level.

- 15. the positively charged central core of an atom

Down

- 1. any of the element's beryllium, magnesium, calcium, strontium, barium, and radium, occupying Group IIA (2) of the periodic table.
- 3. a theoretical approach that regards something as interpretable through analysis into distinct

- 4. a particle representing a quantum of light
- 5. the investigation and measurement of spectra produced when matter interacts with or emits electromagnetic radiation.
- 6. a helium nucleus emitted by some radioactive substances
- 8. something abstract, especially one that is essential or characteristic
- 10. : consisting of a positively charged nucleus with electrons revolving around it
- 11. a source of nuclear energy

Word Bank

- | | | | |
|-----------------|-----------------------|--------------|-----------------|
| Photon | Spectrum | Atoms | Alpha Particles |
| Noble Gas | Quantum Jump | Spectroscopy | Excited States |
| Electron Shells | Alkaline Earth metals | Proton | Bohr Atom |
| Atomism | Nucleus | Elements | |