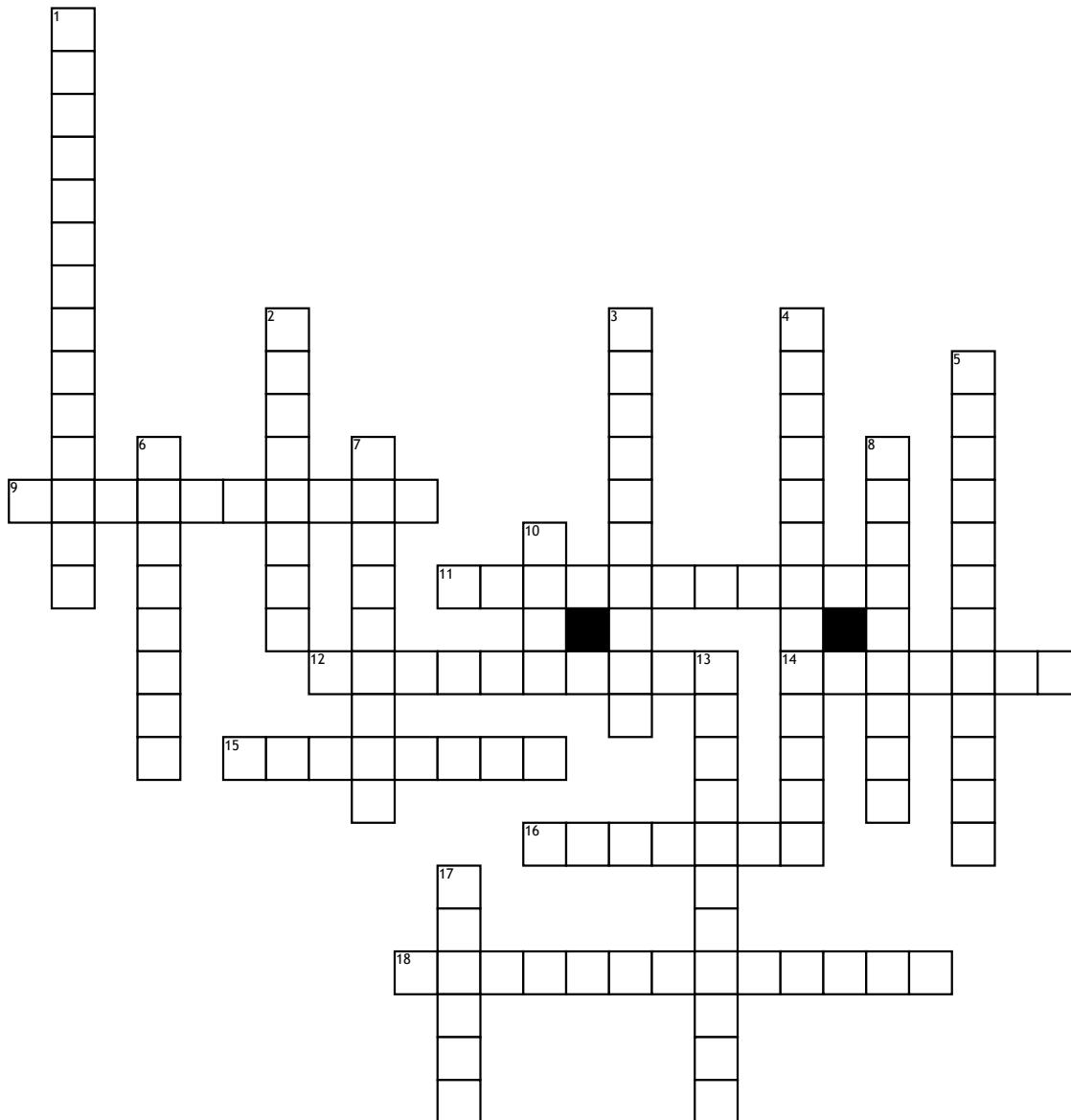


Name: _____

Date: _____

ATOMIC THEORIES



Across

- 9. nucleus center and tiny electrons moved in space around it
- 11. The excited state describes an atom, ion or molecule with an electron in a higher than normal energy level than its _____.
- 12. ancient Greek philosopher, a central figure in the development of philosophical atomism and of the atomic theory of the universe.
- 14. Plum pudding model
- 15. particle has a negative charge
- 16. Atoms that have the same number of protons and electrons but different numbers of neutrons

- 18. Model that describes the electronic structure of the atom as the probability of finding electrons within certain regions of space

Down

- 1. Electons are discovered at the end of this experiment.
- 2. Which experiment has Rutherford?
- 3. Red colour has the longest _____ while violet has the least.
- 4. An _____ is made up of two protons and two neutrons.

- 5. _____ is a technique that uses the interaction of energy with a sample to perform an analysis.
- 6. discovered neutrons by _____
- 7. Wavelength is inversely proportional to _____.
- 8. _____ get their color from metal compounds (also known as metal salts) packed inside.
- 10. electrons are in circular paths
- 13. wave mechanical model. furthered the idea that electrons are in clouds
- 17. Elements consist of atoms and compounds are collection of atoms