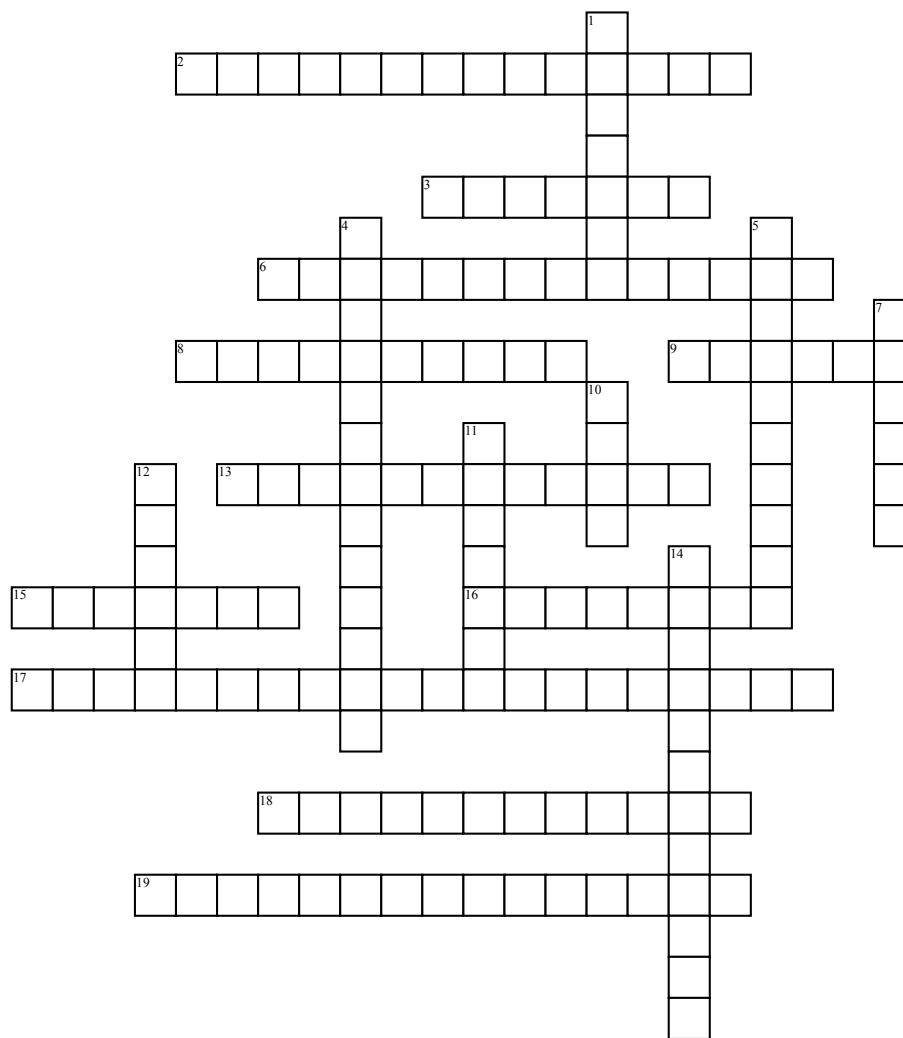


Name: _____

Elements and Atoms



Across

2. extremely small masses are expressed in terms of

3. substance that cannot be broken down by regular chemical means

6. usually the first or second letter(s) of the English or Latin name for an element

8. adding the number of protons and neutrons gives you this number

9. the backbone of organic molecules

13. an unstable isotope that tends to decay and emit radiation

15. particle in the atom with no charge

16. three dimensional space regions through which electrons move

17. electrons with similar energies are said to be at the same

18. fixed number of protons in the atomic nucleus tells us this

19. radioactive decay can be detected by this method

Down

1. composed of clusters of protons and neutrons

4. the chart of elements arranged by atomic number

5. diagrams of an electron and its configuration in an atom (Hint: this diagram displays them arranged in circles)

7. electrons need this to move between orbitals

10. smallest unit of life

11. atom of an element with the same number of protons and electrons but varies by neutron

12. a positively charged subatomic particle

14. the outermost concentric ring in a Bohr's model

Word Bank

Atomic mass unit

Chemical symbol

Isotope

Atom

Atomic number

Element

Atomic mass

Valence shell

Periodic table

Nucleus

Principal energy level

Radioisotope

Orbitals

Proton

Carbon

Bohr models

Energy

Autoradiography

Neutron