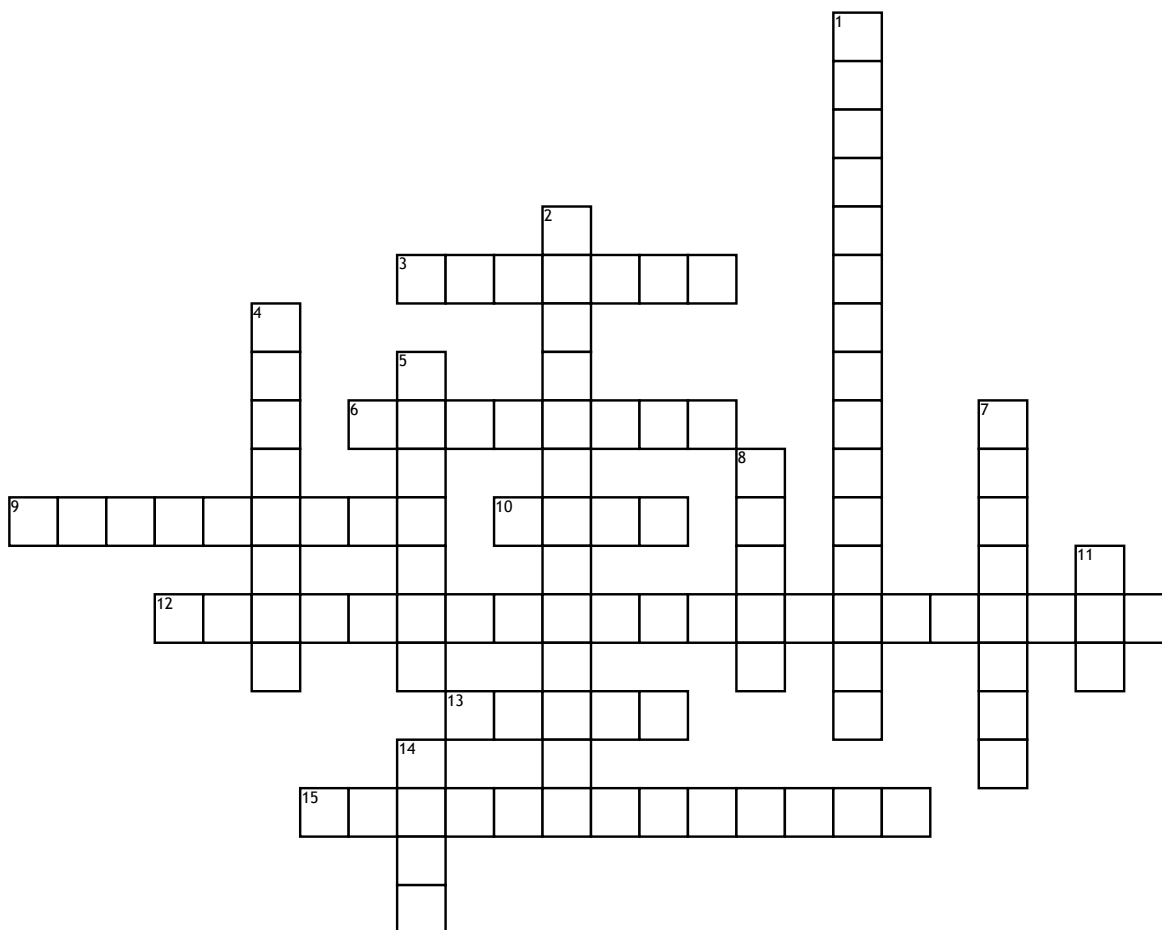


Name: _____ Date: _____

Atomic structure, Electron configuration and the Periodic table.



Across

3. I am a positively charged central core of an atom

6. I have this symbol (-) and have no charge

9. I am smaller than or occurring within an atom

10. A chemical element with the symbol Au and atomic number 79.

12. I am in atomic physics and quantum chemistry. I am the distribution of electrons of an atom or molecule in atomic or molecular orbitals.

13. The smallest particle of a chemical element that can exist.

15. I have a tabular display of the chemical elements, which are arranged by atomic number, electron configuration, and recurring chemical properties.

Down

1. I am a structure to an atom

2. The system of electrons surrounding the nucleus of an atom.

4. Is a chemical element with the symbol H and atomic number 1.

5. A chemical element in the periodic table that has the symbol Hg and atomic number 80.

7. I have this symbol (+) and have a charge

8. The curved path of a celestial object or spacecraft around a star, planet, or moon.

11. I can be an atom or molecule with a net electric charge due to the loss or gain of one or more electrons.

14. A chemical element with symbol Fe and atomic number of 26.