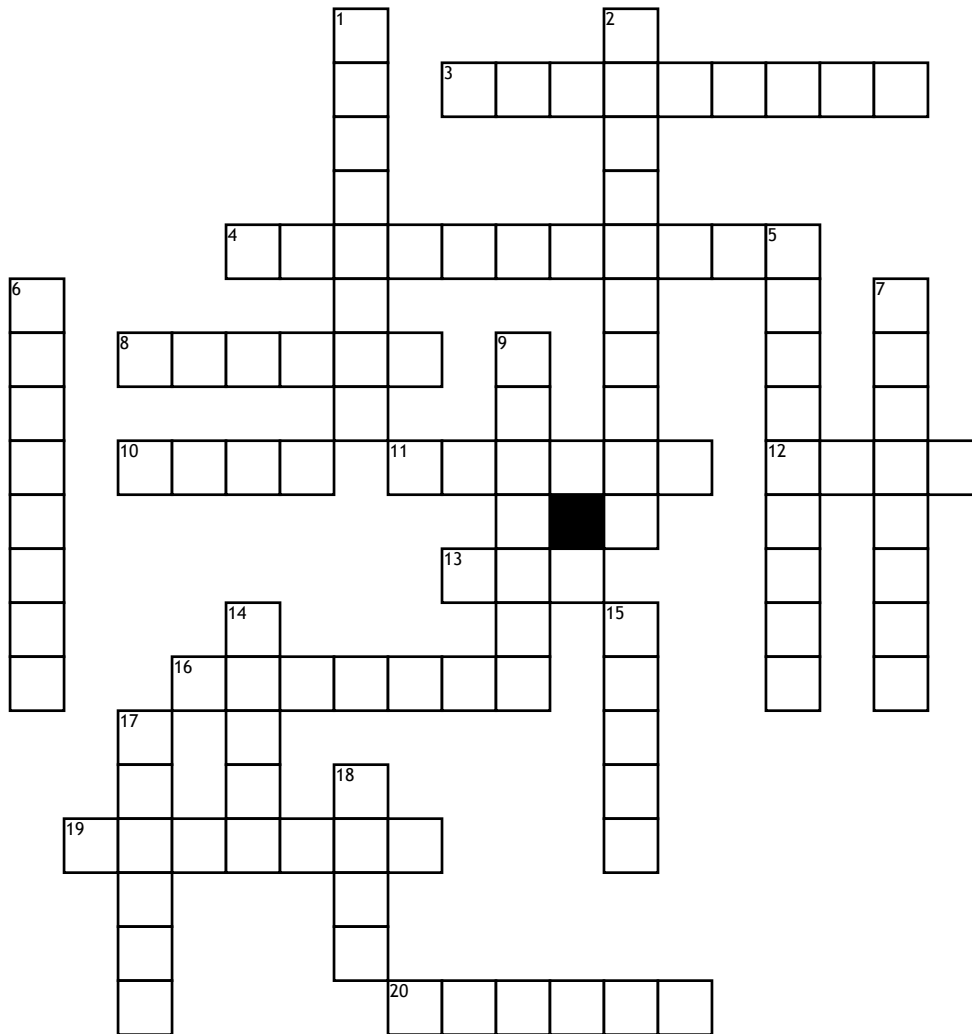


Name: _____

Date: _____

Elements



Across

- 3. which element has an abbreviation of Be
- 4. which element has a mass number of 30.97
- 8. which element is located at $1s^2 2s^2 2p^4$
- 10. which element has an abbreviation of Pb
- 11. which element has a mass number of 22.99
- 12. which element is located at $1s^2 2s^2 2p^6$
- 13. which element has 50 protons
- 16. which element is located at $[Ar]4s^2$

19. which element is located at $[Rn]7s^2 5f^4$

20. which rule states that electrons enter the lowest energy orbitals first

Down

- 1. which element has an atomic number of 1
- 2. which element has a mass number of 162.50
- 5. which element has an atomic number of 38
- 6. which element is located at $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^2$
- 7. which element has a mass number of 19

9. which element has an atomic number of 48

14. which element has an abbreviation of Rn

15. which rule states that an atomic orbital may have up to 2 electrons and the spins have to be paired

17. which element has 56 protons

18. which rule states that when filling degenerate orbitals you must fill them all half way first

Word Bank

- | | | | | |
|----------|------------|----------|-----------|-------------|
| Barium | sodium | radon | Strontium | cadmium |
| oxygen | Dysprosium | hydrogen | lead | Uranium |
| calcium | Pauli | Tin | Beryllium | Phosphorous |
| vanadium | neon | Hund | Aufbau | Fluorine |