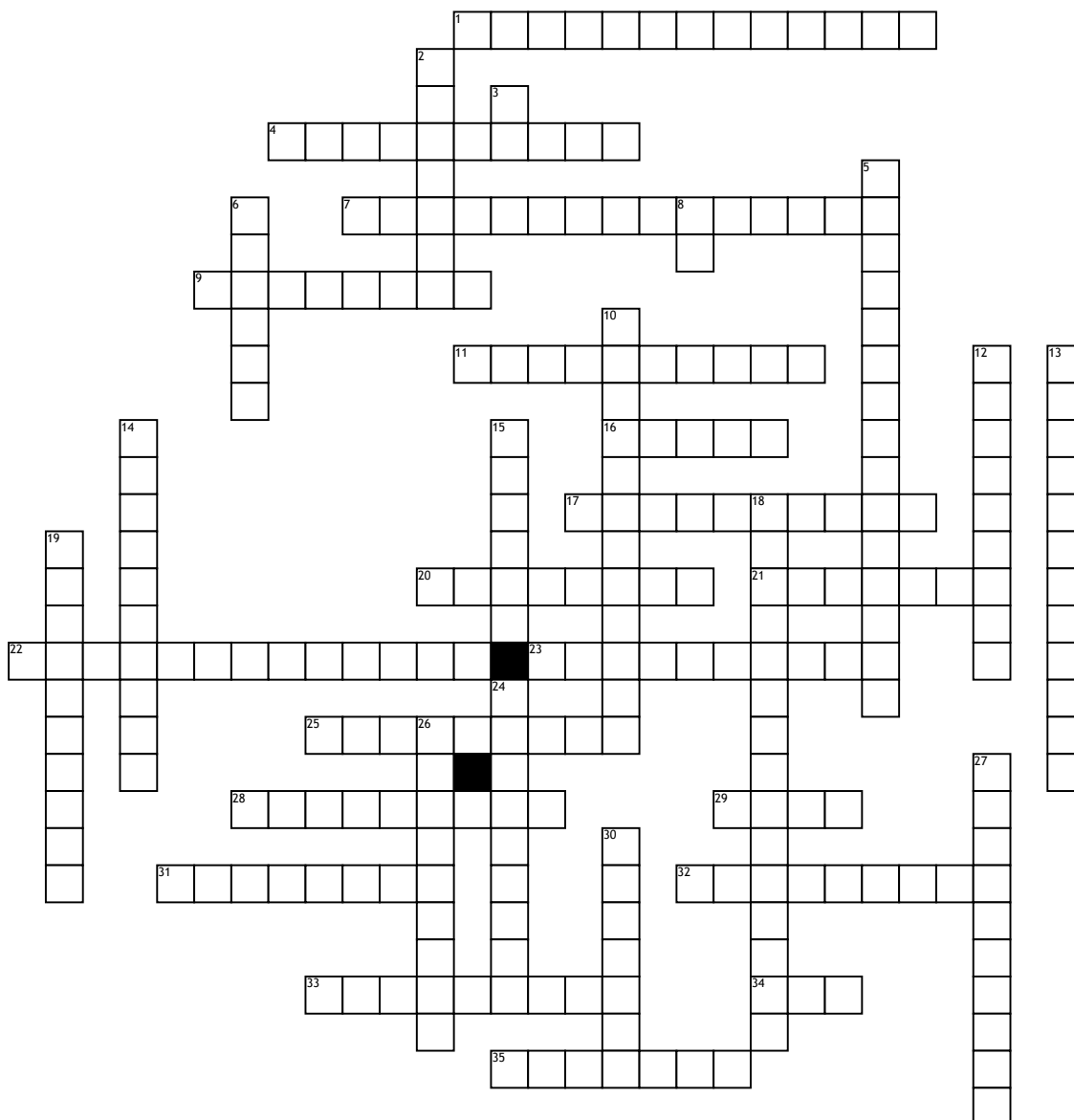


Name: _____ Date: _____ Period: _____

Chapter 1-8 Review



Across

1. What are ions formed from a single atom?
4. He supported the particle theory of matter.
7. What Russian chemist created the 1st periodic table?
9. What element has the electron configuration $1s^2 2s^2 2p^6$?
11. The higher the frequency the shorter the ____.
16. What element was discovered by John William Strutt and Sir William Ramsay?
17. What is a covalent bond in which one pair of electrons is shared between two atoms?
20. What group does the element bromine belong?
21. The pure substances listed on the periodic table.
22. What kind of bond does chlorine and hydrogen form?
23. What kind of data contains numerical information?
25. What are polyatomic ions that contain oxygen?

28. Carbon, Sulfur, Phosphorus, and Iodine are considered ____.

29. What is an ionic compound composed of a cation and the anion from an acid?

31. Mercury (II) Oxide \rightarrow mercury + oxygen is a chemical ____.

32. What do the attraction between cations and anions result in?

33. What rule states that by gaining, losing, or sharing electrons, chemical compounds will reach 8 electrons in the highest occupied energy level.

34. What suffix is added to monatomic anions?

35. mass/volume=

Down

2. A general term for a specific isotope of an element?

3. What system was adopted in 1960 by the General Conference on weights and measures?

5. 6.02×10^{23}

6. Typically measured on a spring scale.

8. What numerical prefix is added to the #2?

10. What is the most reactive group of elements?

12. The study that destroys a distinct division between the biological and physical sciences.

13. On the periodic table, there is a #1 above the element Hydrogen. What is that number?

14. What group contains elements helium, neon, argon, krypton, xenon, and radon?

15. On the periodic table, elements He (Helium) to Rn (Radon) is considered a ____.

18. X-Rays are considered to be a form of what kind of radiation?

19. What is an if-then statement?

24. What physicist proposed a hydrogen atom model that linked the atom's electron to photon emission?

26. The element Curium is in what group?

27. What is the energy required to break a chemical bond and form neutral isolated atoms?

30. All atoms contain very small region in the center called the ____.