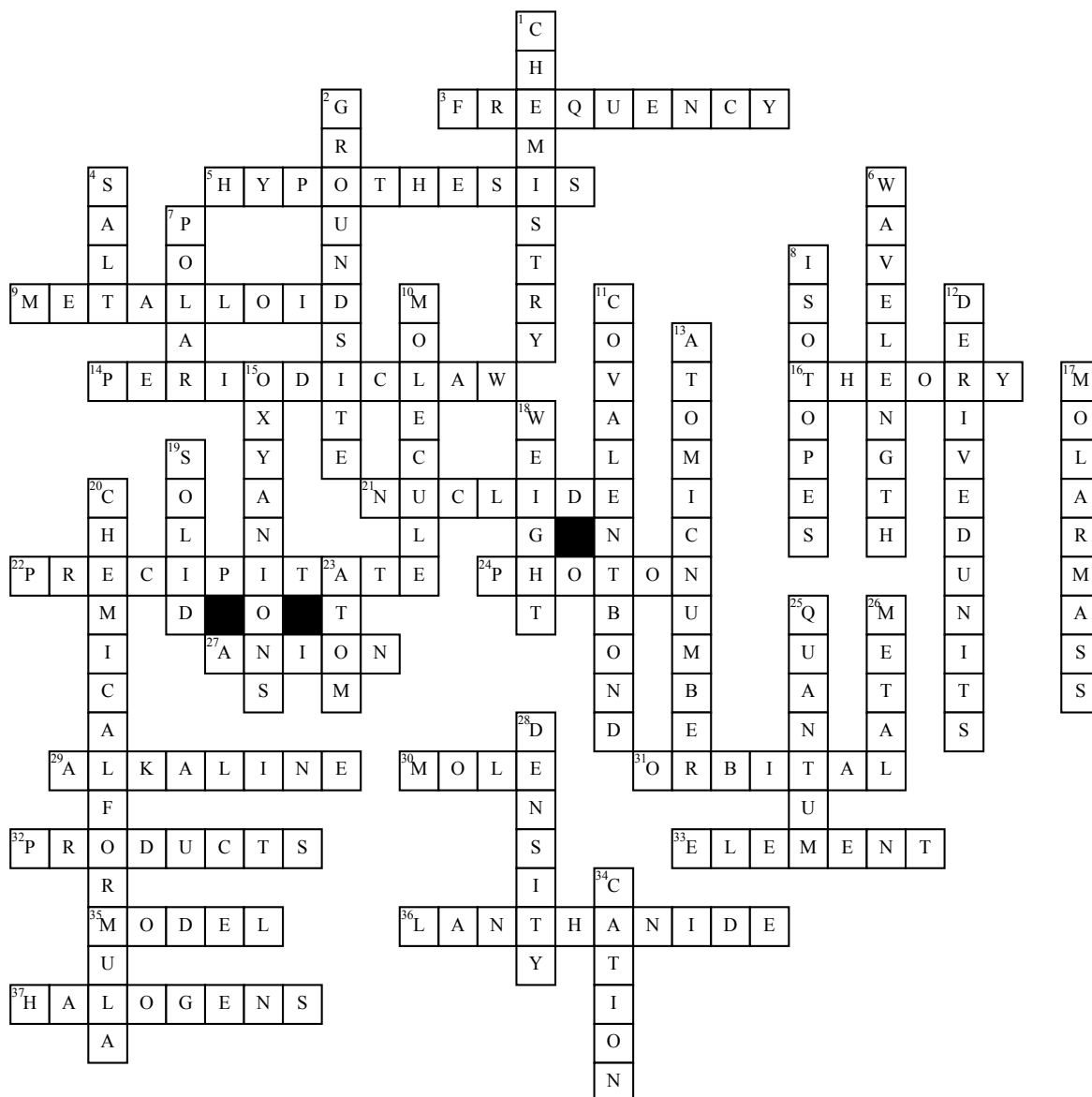


# Chem review by Grant C.



## Across

3. The number of waves that pass a specific point in a specific time(ch 4)  
5. testable statement(Ch 2)  
9. a mix of metal and non-metal (Ch 1)  
14. the physical and chemical properties of the elements are periodic functions of their atomic number (Ch 5)  
16. a broad generalization that explains a body of facts or phenomenon(Ch 2)  
21. general term for any isotope of any element (Ch 3)  
22. a solid that is produced as a result of a chemical reaction (CH 8)  
24. a particle of electromagnetic radiation having zero mass and carrying a quantum of energy (Ch 4)  
27. negative ion (Ch 5)  
29. earth metals of group 2 (ch 5)  
30. the amount of a substance that contains as many particles as there are atoms (Ch 3)

31. a 3D region around the nucleus that indicates the probable location of an electron (Ch 4)  
32. substances formed by chemical change (Ch 1)  
33. A pure substance made of only one kind of atom(Ch 1)  
35. an explanation of how phenomena occur and how data or events are related(Ch 2)  
36. The 14 elements with atomic numbers 58-71 (ch 5)  
37. the elements of group 17 (CH 5)

## Down

1. The study of the composition, structure and properties of matter and changes it under goes(Ch 1)  
2. Lowest energy state of an atom (ch 4)  
4. an ionic compound composed of the cation and anion from an acid (Ch 7)  
6. the distance between corresponding points on adjacent waves(ch 4)  
7. uneven distributions of charge (Ch 6)  
8. Atoms of the same element with different masses (Ch 3)

10. a neutral group of atoms held together by a covalent bond (Ch 6)  
11. results of sharing electron pairs between atoms (Ch 6)  
12. combination of SI base units(Ch 2)  
13. of an element is the number of protons in the nucleus of each atom of that element (ch 3)  
15. polyatomic ions that contain oxygen (Ch 7)  
17. The mass of one mole of a pure substance (ch 3)  
18. a measure of the gravitational pull on matter (Ch 2)  
19. definite volume and shape(Ch 1)  
20. indicates the relative number of atoms of each kind in a chemical compound (CH 6)  
23. smallest particle of an element (Ch 3)  
25. The minimum amount of energy an atom can lose or gain (ch 4)  
26. an element that is a good conductor (Ch 1)  
28. mass divided by volume (Ch 2)  
34. positive ion(Ch 5)