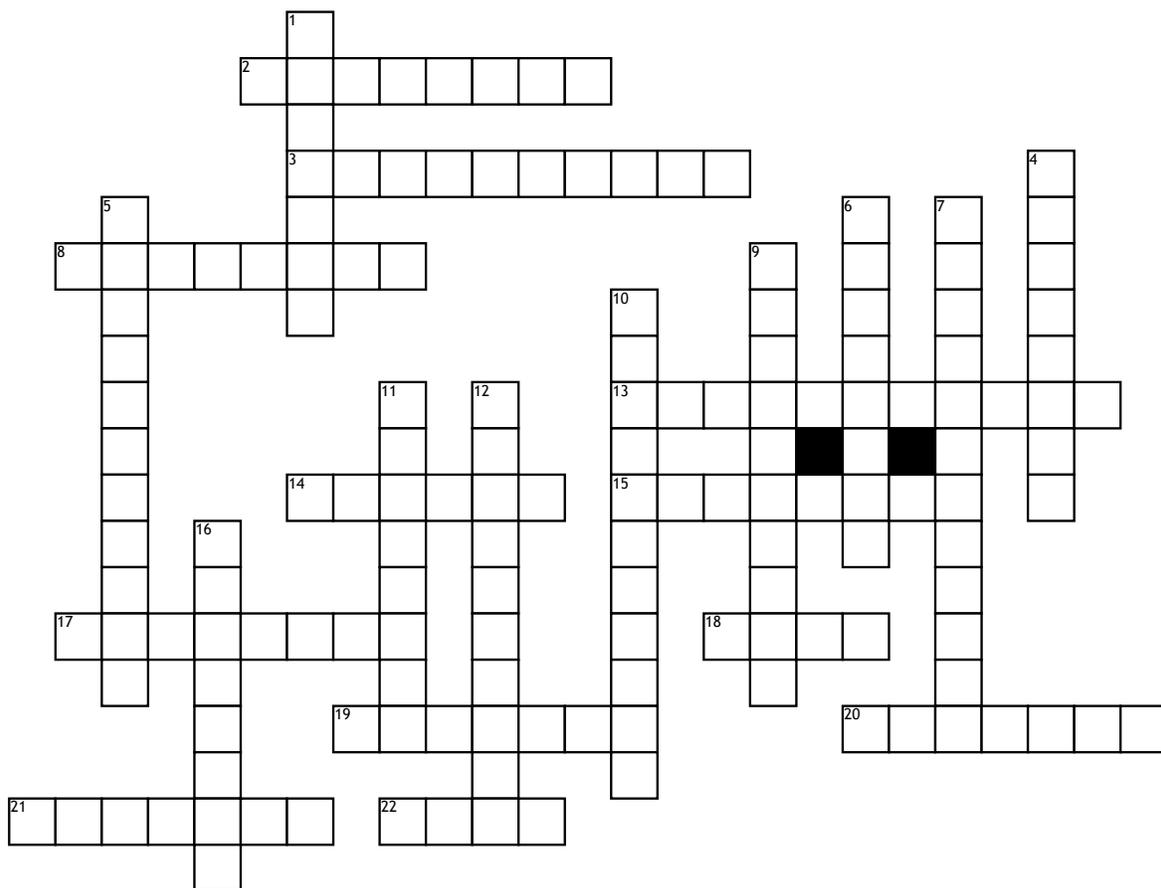


# Chemistry Sem. 1 Final Review



## Across

2. He discovered the electron using gas tubes.  
 3. He discovered the nucleus was positively charged using gold foil and alpha particles.  
 8. The letter s, p, d, and f each represent a \_\_\_ in an atom.  
 13. A mixture where you cannot see the different parts.  
 14. The amount of space an object takes up.  
 15. The d subshell in an atom has 5 \_\_\_\_\_.  
 17. A bond made with 2 of the same element.

18. He thought the atom was like a solar system.

19. The SAME element but with different number of neutrons.  
 20. The amount of matter in a certain space.  
 21. Each new element is identified by its number of \_\_\_\_\_.  
 22. When you add the protons and neutrons together you get the \_\_\_ number.

## Down

1. When the proton # does not equal the electron # the atom is considered \_\_\_\_.

4. Made up of 2 or more different elements.

5. Change from solid to gas.  
 6. A material that is brittle and a bad conductor.  
 7. Change from gas to liquid.  
 9. Change from gas to solid.  
 10. He thought of general areas that electrons most probably can be found mathematically.  
 11. This family is next to the noble gases.  
 12. He first came up with the idea of an atom.  
 16. The subatomic particle with the smallest mass.