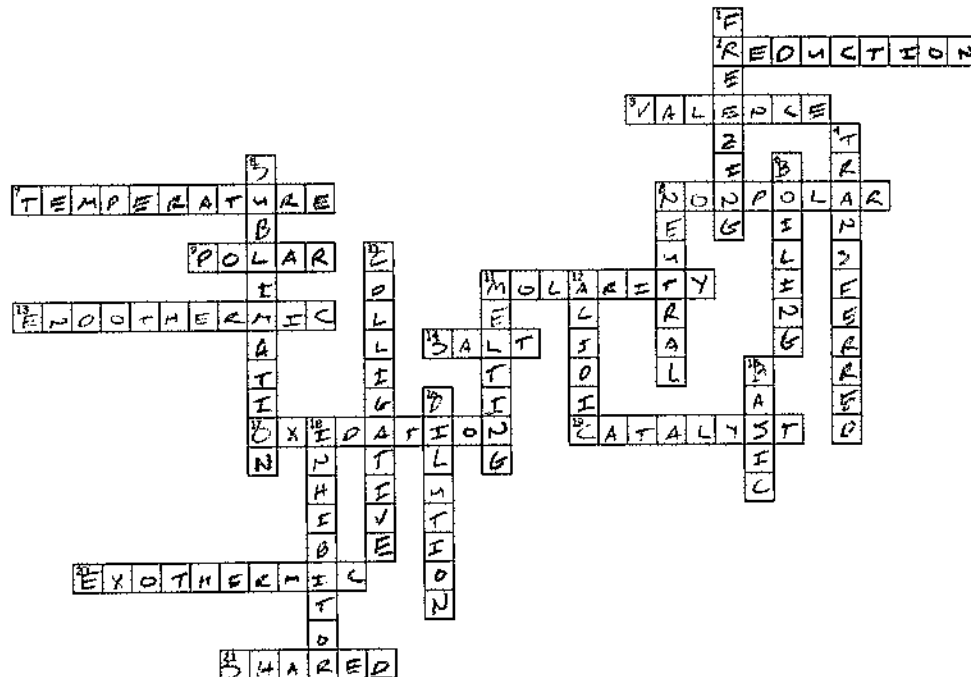


# Chemistry 2nd Semester Final Exam Review



### Across

2. gain of electrons
3. the type of electrons that are involved in bonding
7. the average kinetic energy of a gas
8. this type of bond occurs when electrons are pulled equally by atoms in the bond
9. this type of bond occurs when electrons are pulled harder by one atom over another atom
11. given in moles per liter
13. a reaction where the energy of the products is higher than the energy of the reactants
14. what is produced, along with water, in a neutralization reaction
17. loss of electrons
19. speeds up reaction rate by lowering the activation energy
20. a reaction where the energy of the products is lower than the energy of the reactants
21. this is what happens to electrons in a covalent bond

### Down

1. state change for liquid to solid
4. this is what happens to electrons in an ionic bond
5. state change from solid to gas
6. state change from liquid to gas
8. pH of 7
10. properties that depend upon the number of particles dissolved in a given amount of solvent and NOT the type of particles
11. state change from solid to liquid
12. pH below 7
15. pH above 7
16. adding more solvent to a solution to lower concentration
18. ties up the reactants, but does NOT influence the actual rate of the reaction

23 of 23 words were placed into the puzzle.

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