

Chapter 5 Study Guide- Physical Science
Test Monday, April 28th, 2014

1. What is a chemical bond? **force of attraction that holds elements together in order to form a unit**
2. Define chemical structure. **the arrangement of atoms in a substance.**
3. What is an ionic bond? **a chemical bond in which one atom loses an electron to form a positive ion and the other atom gains an electron to form a negative ion**
4. An ionic bond is between a **METAL** and a **NONMETAL** .
5. What is a covalent bond? **a chemical bond that involves sharing a pair of electrons between atoms in a molecule**
6. A covalent bond is between a **nonmetal** and a **nonmetal** .
7. What is a metallic bond? **a bond formed by the attraction between positively charged metal ions and the electrons around them.**
8. What are the polyatomic ions? **an ion made of two or more atoms.**
9. What is an ION? **a charged atom**
10. What is a CATION? **A positively charged atom**
11. What is an ANION? **A negatively charged atom**
12. Which part of an ionic compound should be written first? **Metal**

Name the following ionic compounds:

13. FeI_2 - **Iron Iodide**
14. MnF_3 - **Manganese Fluoride**
15. CrCl_2 - **Chromium Chloride**
16. CuS - **Copper Sulfide**

Name the following covalent compounds:

17. As_2O_5 - **diarsenic pentaoxide**
18. SiI_4 - **silicon tetraiodide**
19. P_4S_3 - **terraphosphorus trisulfide**
20. P_4O_{10} - **tetraphosphorus decoxide**

Write the equation for the following ionic compounds:

21. Lithium Oxide- **Li_2O**
22. Magnesium Nitride- **Mg_3N_2**
23. Sodium Phosphide- **Na_3P**
24. Calcium Bromide - **CaBr_2**

Define/Explain the following

25. What is a subscript? **number written below, tells you how many of each element is present in compound/molecule**
26. What is a superscript? **number written above the element symbol, this is how the oxidation number (charge) is displayed.**

Physical Science Chemical Bond Study Guide

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United States. Congress. House. Committee on Appropriations. Subcommittee on Independent Offices,1964 Independent Offices Appropriations United States. Congress. House. Committee on Appropriations. Subcommittee on Independent Offices and Department of Housing and Urban Development,1966 Hearings United States. Congress. House,1964 *The Art of*

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Standards A Framework for Research in Mathematics Science and Technology Education National Research Council 2002
That report provided organizing principles for the design conduct and interpretation of research regarding the influence of national standards The Framework developed in Phase I was used to structure the current review of research that is reported here Phase II began in mid 2001 involved a thorough search and review of the research literature on the influence of the NSES and concludes with this publication which summarizes the proceedings of a workshop conducted on May 10 2002 in Washington DC Phase III will provide input collected in 2002 from science educators administrators at all levels and other practitioners and policy makers regarding their views of the NSES the ways and extent to which the NSES are influencing their work and the systems that support science education and what next steps are needed

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