

Study guide for Molecules and Compounds quiz

To be prepared for this quiz, you should be able to confidently answer the following questions or explain the following concepts.

<p>Vocabulary terms (new are bolded)</p> <p>12. Group 13. Period 14. Atomic radius 15. Valence electrons 16. Ionization energy 17. Molecule 18. Compound 19. Ionic bond 20. Covalent bond 21. Polar covalent bond 22. Non-polar covalent bond</p> <p>1. Matter 2. Atom 3. Proton 4. Neutron 5. Electron 6. Nucleus 7. Element 8. Ion 9. Isotope 10. Atomic number 11. Atomic mass</p>	<p>1. Be able to use the Periodic Table for its original intentions, as a study tool! Know the trends for:</p> <ol style="list-style-type: none">1. Atomic radius2. Ionization energy3. Valence electrons <p>2. Be able to describe the Octet rule (why atoms want 8 valence electrons?)</p> <p>3. Be able to describe an ionic bond (what happens to electrons, formed by what kinds of elements, what is new charge of ions?)</p> <p>4. Be able to describe a covalent bond (what happens to electrons, formed by what kinds of elements?)</p> <p>5. Be able to identify how many valence electrons an element will have.</p> <p>6. Be able to draw the Lewis dot structure for molecules (how can you check to make sure your diagram is right? How are these drawings different for ionic and covalent bonds?)</p> <p>STUDY TOOLS:</p> <ol style="list-style-type: none">1. Notes:<ol style="list-style-type: none">a. Organization of the Periodic Tableb. Bonding Notesc. More Bonding Notes2. Activities:<ol style="list-style-type: none">a. _____ Bonding Pt.1b. Modeling Covalent Compoundsc. Skittle Bonding3. Flashcards
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