

Ionic Bonding Quiz

- An ionic bond is a
 - Transfer of electrons
 - Pooling of electrons
 - Sharing of electrons
 - Just losing electrons
- What holds ionic bonds together is
 - Their love
 - The periodic table
 - Ions with opposite charges
 - protons and neutrons
- An element of calcium(Ca^{2+}) could form an ionic bond with
 - Te^{2-}
 - K^{1-}
 - Mg^{2+}
 - Be^{2+}
- Noble or Inert gases only form ionic bonds with other noble or inert gases.
 - True
 - False
- Elements in the periodic table are grouped by
 - What state of matter they are
 - Their valence electrons
 - Their good looks
 - Their mass number
- What are valence electrons
 - Fancy electrons
 - Electrons on the second level
 - Electrons on the first level
 - Electrons on the outermost energy level
- What groups form ionic bonds on the periodic table
 - Groups 1 & 7, Groups 2 & 6
 - Groups 1 & 18, Groups 4 & 4
 - Groups 1 & 17, Groups 2 & 16
 - Groups 3 & 5, Groups 4 & 4
- What do the dots on the Lewis dot diagram represent?
 - The number of protons
 - The valence electrons
 - The atomic number
 - The total number of electrons
- What makes a positive ion?
 - Gaining electrons
 - Gaining protons
 - Losing electrons
 - Losing protons
- How many electrons does an atom need to complete a full ring?
 - 2 on the first ring, 8 on the second ring
 - 10 total
 - 8 on all of the rings
 - It just needs one

Matching elements with their ionic charges

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|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| 11. Br | a | 12. In | c | 13. Cs | d | 14. Po | b | 15. Be | e |
| | a. 1- | | b. 2- | | c. 3+ | | d. 1+ | | e. 2+ |

Creating Ionic Bonds (match the element with its likely ionic partner)

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|-------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| 16. K | b | 17. At | a | 18. Tl | e | 19. Bi | c | 20. Te | d |
| | a. Rb | | b. I | | c. B | | d. Ba | | e. As |

