

Name key

## Physical Science Chemical Bonding Study Guide

### A. Covalent & Ionic Compounds/Bonds

1. When an atom loses an electron it becomes a positive ion (cation), and when it gains an electron it becomes a negative ion (anion).
2. An element in the halogen group has 7 valence electrons, and wants to gain 1 more to have 8. This is because of the octet rule.
3. An ionic bond is the attraction between oppositely charged ions, AKA a metal and a nonmetal.
4. In a covalent bond, atoms share electrons, whereas in an ionic bond, atoms transfer electrons.
5. (Honors only) When electrons are shared unequally in a covalent bond it is polar, and when they're shared equally it is nonpolar. You can predict if a compound is ionic, polar covalent or nonpolar covalent by subtracting the electronegativities.
6. An atom can have up to 8 valence electrons. The family (column) on the periodic table that all have 8 valence electrons is called noble gases.
7. Atoms can gain, lose, or share valence electrons to become more stable.

### B. Formulas for Ionic compounds - Fill in the chart below

	Magnesium	Fluorine	Nitrogen	Lithium
# OF VALENCE ELECTRONS	<u>2</u>	<u>7</u>	<u>5</u>	<u>1</u>
OXIDATION #	<u>+2</u>	<u>-1</u>	<u>-3</u>	<u>+1</u>

2. What is the **chemical formula** for each of the following ionic compounds?  
(*hint: you can either draw the Lewis structures and use arrows to show the transfer of electrons, OR use the periodic table to find their oxidation numbers. They will combine so that their oxidation numbers cancel out to zero. Use the criss cross method if their oxidation numbers do not cancel.*)

- a) Potassium and Chlorine - KCl
- b) Calcium and Bromine - CaBr<sub>2</sub>
- c) Magnesium and oxygen - MgO

# Physical Science Study Guide Chemical Bonding

**DJ Losen**



## **Physical Science Study Guide Chemical Bonding:**

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ago the class finds ms frizzle inside her closet playing a pinball machine she created

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web this game is based on the book the magic school bus inside the earth and the episode the magic school bus blows its top and its tv tie in book adaptation arnold has lost some of the rocks and minerals in his collection

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web based on the best selling book series of the same name the magic school bus takes kids on a virtual bus ride magically transforming into a plane submarine spaceship or surfboard this bus carries ms frizzle and her students on super adventures and teaches them about science

*magic school bus scholastic media room* - Jan 13 2023

web what is it a critically acclaimed book and animated television series that helps kids learn about science who is it for kids ages 4 9 who want to take chances make mistakes get messy visit the site scholastic com magicschoolbus facebook com themagicschoolbus more information for book information or author illustrator interviews

*the magic school bus is back and it s tackling evolution* - Sep 09 2022

web sep 6 2019 how has the magic school bus series changed over the years if at all joanna cole i don t think it has changed it continues to be a combination of humor fiction and science

the magic school bus rides again tv series 2017 2021 imdb - Mar 15 2023

web 24 photos animation adventure family ms frizzle and her class along with an inventive high tech bus that invites children on high flying hijinks that introduce the incredible world of science stars gabby clarke birva pandya kate