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Chemical Bonds – Ionic Bonds

1. Identify the Number of Valence Electrons and Draw the Lewis Dot Structure

Notes: Scientists use Lewis Dot Structures to show the valence electrons of an element as dots. Since bonding involves the valence shell electrons only, it is only necessary to illustrate those outer electrons.

Element	Bohr Diagram	Group Number (PT)	# of Valance Electrons	Lewis Dot Structure
Calcium				
Carbon				
Hydrogen				
Helium				
Oxygen				
Fluorine				
Neon				
Sodium				
Aluminum				

You will learn:

to write and read 4 types of chemical formulas:

1. Ionic Compounds

2. Polyatomic Compounds

3. Molecular Covalent Compounds

4. Acids/ Bases

Wk. T3.71 T3.74 T5.75 T6.77.78

Chemical Nomenclature	
Units formed in the following compounds. Name compounds that start with hydrogen as acids.	
calc. phosphate	chromium(II)-chromate
monatomic sulfur	monatomic phosphorus
chlorine dioxide	nickel chromate
cuprous chloride	organic carbonate
calcium hydrosulfide	organic phosphate
aqueous nitric acid	calcium sulfate dihydrate
aqueous nitrous acid	calcium sulfite
nitrous acid	calcium sulfide
aluminum carbonate	chromium iodide
aluminum cyanide	chromium iodate
barium cyanide	monatomic hydrosulfide
potassium permanganate	monatomic hydrosulfate
tin(II) fluoride	nickel acid
barium oxide	nickel chromate
antimony(III) nitride	phosphorus acid
cuprous bromide	calcium acid
copper(II) nitrate	calcium hydrosulfide
barium diiodide	chromium acid
sulfur hydrosulfide	chromium acid
calcium nitride	hydrogen acid
calcium nitrate	barium acid
lead(IV) sulfate	arsenic acid
antimony(III) chloride	hydrobromic acid
aqueous nitrous acid	chromic acid
aqueous nitric acid	chromic acid
chlorine dioxide	nickel acid
calcium hydrosulfate	chromic phosphate
calcium nitrate	nickel hydride
calcium acid	cuprous phosphate

Chemical Bonding

Down:

1. A chemical property that is shared or passed through a small quantity of substance
2. Common non-metallic elements are called _____
3. A single bond is formed by the exchange between what atoms and the surrounding space?
4. _____ is the energy required to break a chemical bond and is tabulated data.
5. A chemical property of _____ is that it reacts with a broad tabulated data.
6. _____ is the heat or energy released during a chemical reaction.
7. A chemical property that the free elements of elements is in the _____ energy level.

Across:

1. A property which results from the electrical attraction between positive and negative charges
2. The chemical formula of an element
3. The chemical formula of an element
4. The chemical formula of an element
5. A chemical property of _____ is that it reacts with a broad tabulated data.
6. _____ is the heat or energy released during a chemical reaction.
7. A chemical property that the free elements of elements is in the _____ energy level.

Down:

1. A chemical property that is shared or passed through a small quantity of substance
2. Common non-metallic elements are called _____
3. A single bond is formed by the exchange between what atoms and the surrounding space?
4. _____ is the energy required to break a chemical bond and is tabulated data.
5. A chemical property of _____ is that it reacts with a broad tabulated data.
6. _____ is the heat or energy released during a chemical reaction.
7. A chemical property that the free elements of elements is in the _____ energy level.

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Student Exploration: Big Bang Theory – Hubble's Law

Vocabulary: absolute brightness, absorption spectrum, apparent brightness, Big Bang theory, dwarfish, Cepheid variable, Doppler shift, Hubble constant, Hubble's law, luminosity, megaparsec, period, redshift, spectrograph

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Standing by the side of a lonely highway at night, you see two motorcycle headlights, one in each direction. The headlight on your left appears brighter than the one on your right.

- If the headlights are equally bright, which motorcycle is closer? _____
Explain: _____
- Suppose the dim-looking headlight on the right is actually a small light on the front of a bicycle. What can you conclude about the distance of the motorcycle and bicyclist? _____

Gizmo Warm-up

In 1912, an astronomer named Henrietta Swan Leavitt studied a class of stars called **Cepheid variables**. These stars change from bright to dim to bright again. Her discoveries led to a method of measuring distances to other galaxies and eventually helped to support the **Big Bang** theory of the origin of the universe.

In the Big Bang Theory – Hubble's Law Gizmo™, select **Region A**. Look at the image of the Andromeda Galaxy, a galaxy relatively close to our own Milky Way galaxy.

- Locate the two Cepheid variables, the stars that change in brightness over time. Star A-091 is the yellow star, and A-171 is the white star.
 - Which star reaches a greater **apparent brightness**? _____
 - Which star takes longer to pulse? _____
- Because both stars are in the same galaxy, they are about the same distance from Earth. Based on what you see, how is the brightness of the star related to how quickly it pulses? _____



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13

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Reserved

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