

CHAPTER 7 JEOPARDY

What is an alloy?

A mixture that contains at least one metal and has the characteristics of a metal

What is an ionic compound?

Cation/anion combination

What is a valence electron?

An electron that is in the outermost energy level.

What is an ionic bond?

The bond between a cation & an anion.

What is a formula unit?

The lowest whole-number ratio of ions used to represent an ionic compound.

What is a chemical formula?

Notation w/ chemical symbols and numerical subscripts to show the relative proportions of elements in a substance.

What is a halide ion?

Ions of the 7A group.

What is an electron dot structure?

The chemical symbol for an element with a dot for each valence electron.

What is the octet rule?

The rule that states that atoms in compounds tend toward a noble-gas electron configuration.

What is a coordination number?

The number ions of opposite charge surrounding each ion in a crystal.

What is a metallic bond?

The bond between valence electrons and metal cations.

What is group 4?

The group with 4 valence electrons.

What is group 5?

The group that forms 3- ions.

The electron dot structure of sulfur is

The electron configuration for Cl

What is electrical conductivity?

The metal characteristic due to mobile valence electrons.

What is a noble gas electron configuration?

Atoms tend to attain this when forming compounds.

What is neutral?

The charge of an ionic compound.

What is a high melting point?

The melting point of an ionic compound is

What is melted or dissolved?

Ionic compounds will conduct electricity when

What is solid?

The state of ionic compounds at room temperature.

What is group 1?

The group of elements that would most easily combine with bromine to create an ionic compound.

What is positive?

A cation's charge.

What is negative?

An anion's charge

What is Co^{2+} ?

The cation formed when cobalt loses 2 electrons

What are valence electrons?

Determines the chemical properties of an element.

What is a halogen?

The group of elements with 7 valence electrons.

What is stability?

The reason why atoms tend to gain or lose electrons.

What is the sea of electrons model?

The model used to explain why metals are malleable and ductile.

What is a metal?

The type of element that can be arranged in a face-centered structure.

The electron dot structure for strontium is

The electron dot structure for strontium's ion is

The electron dot structure for iodine is

The electron dot structure for iodine's ion is

The formula for barium's ion is

The formula for selenium's ion is

The formula for rubidium's ion is

The complete electron configuration for magnesium's ion is

The complete electron configuration for nitrogen's ion is

The complete electron configuration for fluorine's ion is