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# Chemical Interactions 1\&2 



## Across

2. the amount of time it takes for one-half of the atoms in a particular sample to decay
3. a group of atoms held together by covalent bonds
4. elements that conduct electricity and heat well and have a shiny appearance
5. the horizontal row in a periodic table
6. elements that have properties of both metals and nonmetals
7. a positively charged particle
8. the equal sharing allows for electrons to move easily among the atoms of the metal.
9. the number of protons and neutrons in an atoms nucleus
10. attraction between a positive and negative ion. when one atom gives up an electron to the other atom
11. the center of an atom that consists of protons and neutrons
12. a covalent bond in which the electrons are shared unequally
13. atoms of the same element that have a different number of neutrons

## Down

1. uses chemical symbols to represent the atoms of the elements and their ratios in a chemical compound
2. the number of protons in the atoms nucleus
3. the atoms of an element is the average mass of all the elements isotopes
4. a number written to the right of a chemical symbol and slightly below
5. the name of how the elements are arranged periodically
6. the number of protons which transform into an atom of a different element
7. a negatively charged particle
8. a pair of shared electrons between two atoms
9. the elements in a column
10. formed when an atom loses or gains one or more electrons
11. the elements to the right side of the periodic table are called
12. an uncharged particle
13. how likely an element is to undergo a chemical change

## Word Bank

neutron
atomic mass number
group
radioactivity
ionic bond
proton
isotopes
period
metalloids
covalent bond
nucleus
ion
metals
half-life
molecule
electron
atomic mass
reactive
chemical formula
polar covalent bond
atomic number
periodic table nonmetals
subscript metallic bond

