

All work must be hand-written; nothing that is typed will be accepted for credit.
This activity is worth 100 points.

General Vocabulary Review

As you surf the suggested sites and **look for other sites** to help you make note of the vocabulary terms that you encounter. You may already know some of these definitions, if not, look them up and write the definitions here!

Term	Definition
Alkali Metal	
Element	
Reactive	
Valence Electron	
Alkaline Earth	
Metal	
Mineral	
Compound	
Alloy	
Non-Metal	
Conductor	
Corrosion	
Halogens	

Alkali Metals

Find out how the following elements are used in fireworks. Explain the role of each element.

Al	
Ba	
C	
Ca	
Cl	
Cu	
Fe	
K	
Li	
Mg	
Na	
O	
P	
S	
Sb	
Sr	
Ti	
Zn	

- Chemistry of firework colors
<http://chemistry.about.com/od/fireworkspyrotechnics/a/fireworkcolors.htm>
- Chemistry of Fireworks
<http://www.fireworks.com/safety/chemistry-fireworks.asp>
- Create Your Own Fireworks
http://www.fireworks.com/interactive/fireworks_show/default.asp
- Starshell Glossary (Shapes of Fireworks)
http://www.firework.co.nz/fireworks/starshell_glossary.htm
- Pyrotechnics: It's Elemental
<http://www.pbs.org/wgbh/nova/kaboom/elemental/>

Alkaline Earth Metals

Use these websites to find the information to complete the following chart.

KidsHealth.Org

http://kidshealth.org/teen/misc/mineral_chart.html

HealthAlternatives

<http://www.healthalternatives2000.com/minchart.htm>

<http://www.webelements.com>

Mineral Chart			
Mineral Name	Importance to Health	Good Sources	Type of Element
Calcium	Helps form healthy bones and teeth, helps blood clotting, regulates heartbeat	Dairy products (milk, yogurt, cheese), green leafy vegetables (spinach, collard greens)	Alkaline-Earth Metal
Chlorine			
Copper			
Fluorine			
Iodine			
Iron			
Magnesium			
Phosphorous			
Potassium			
Sodium			
Zinc			

Transition Metals

Use the following websites to find the information you will need to complete the data table.

<http://www.csudh.edu/oliver/chemdata/alloys.htm>

http://www.efunda.com/materials/alloys/alloy_home/alloys.cfm

<http://www.webelements.com>

Name of alloy	Composition (elements)	Properties	Common uses
Brass			
Bronze			
14-karat gold			
Pewter			
Solder			
Stainless steel			
Sterling silver			
Wrought iron			