

Name: _____

Periodic Trends Stations

Station # 1 – Metal Reactivity (with water)

What happens as you go down a group? Let's test the Alkali Metals with water!

Element	Reaction
Li lithium	
Na sodium	
K Potassium	
Rb Rubidium	
Cs Cesium	

As you go down a group of metals, the reactivity _____.

What happens as you go across a period? Let's test Period 4 with water.

Element	Reaction
K Potassium	
Ca Calcium	
Fe Iron	
Cu Copper	

As you go across a period of metals, the reactivity _____.

Name: _____

Station #2 – Properties of Metals & NonMetals

Use the materials at your station to complete the following tests.

Element	Appearance	Malleable or Brittle	Electrical Conductivity	Shiny or Dull
C carbon				
Mg magnesium				
Al Aluminim				
S Sulfur				
Sn Tin				

1. Which elements are metals? What properties do they have in common?

2. Which elements are non- metals? What properties do they have in common?

Name: _____

Station #3 – Atom Size

What happens to the size of an atom as you go down a group?

Element	Atomic Radius (pm) – look it up online!
Li lithium	
Na sodium	
K Potassium	
Rb Rubidium	
Cs Cesium	

As you go down a group, the size of the atom _____.

What happens to the size of an atom as you go across a period?

Element	Atomic Radius (pm) – Look it up online!
Li lithium	
Be beryllium	
B boron	
C carbon	
N nitrogen	
O oxygen	
F fluorine	
Ne neon	

As you go across a period, the size of the atom _____.

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Wrap Up!!!
Circle the correct element.

Which metal is more reactive?

Mg or Sr

Os or Fe

Sr or Sn

U or Es

Which atom is larger?

N or As

W or Cr

Y or Tc

Se or Kr

Circle the METAL

I or Zr

Sn or Sb

Shiny or Dull

Does NOT conduct electricity or Conducts electricity

Malleable or Brittle

Colored or Silver