STATION 1
CLASSIFYING MATTER

True or False?

_____ 1. An element cannot be broken down into simpler substances.

_____ 2. Compounds can be categorized as heterogenous and homogeneous.

_____ 3. Mixtures are made up a variety of elements and compounds.

_____ 4. Two or more elements chemically bonded together make a compound.

Classify the following as an element, compound or mixture.

5. Oxygen: _____

6. Coffee: _____

7. Sodium Chloride: _____

8. Air: _____

9. Tungsten: _____

10. $C_{12}O_{22}H_{11}$: _____

I feel **confident** about the content.	A **little uncertain** and will require some review.	I definitely **need to review** this content.

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STATION 2
SUBATOMIC PARTICLES

Element Symbol	Element Name	Atomic Number	Atomic Mass/ Weight	Number of Protons	Number of Electrons	Number of Neutrons
F						
	Cadmium					
		39				
			207			

Fill in the following table:

Subatomic Particle	Charge	Location in the atom	Mass (heavy or light)
	neutral		
	negative		
	positive		

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STATION 3
SUBATOMIC PARTICLES

Element Symbol	Element Name	Atomic Number	Atomic Mass/ Weight	Number of Protons	Number of Electrons	Number of Neutrons
				11		
					6	
						20

Determine the subatomic particle(s) described by the following statements:

a. Has a charge: _____ and _____

b. Has the heaviest mass: _____ and _____

c. Does not have a charge: _____

d. Has the lightest mass: _____

e. Is found in the nucleus: _____ and _____

f. Has equal masses: _____ and _____

g. Gives the nucleus a positive charge: _____

h. Is found in shells that surround the nucleus: _____

i. Have equal quantities in all **neutral** atoms: _____ and _____

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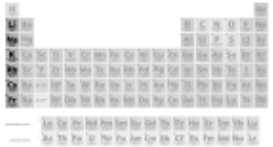
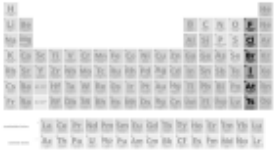
STATION 4
PERIODIC TABLE

What is the name of the highlighted column/group on each Periodic Table?



Group name:
_____

Group name:
_____



Group name:
_____

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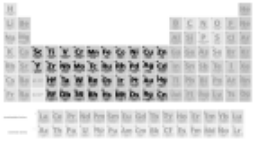
_____



Group name:
_____

Circle the Periodic Table that has highlighted the most reactive metals.

Put a square around the Periodic Table that has highlighted the most stable elements.

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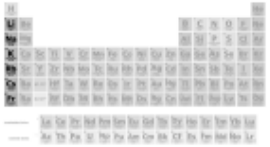
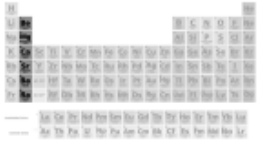


Group name:
_____



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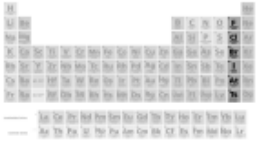
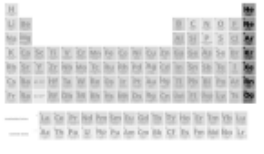
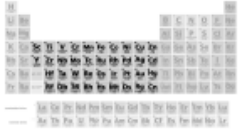


Group name:
_____



Group name:
_____



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STATION 5
PERIODIC TABLE

List all of the elements (name and symbol) for the following:

a) alkali metals family:

b) alkaline earth metals family:

c) the top row of the transition metals:

d) halogens family:

e) noble gas family:

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STATION 5
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List all of the elements (name and symbol) for the following:

a) alkali metals family:

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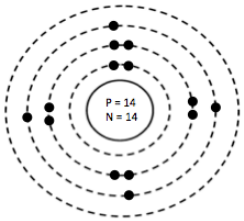
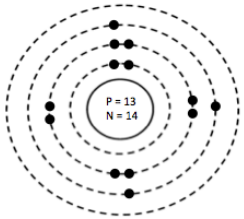
STATION 6
BOHR MODEL

1. In a Bohr Diagram, what is the maximum number of electrons allowed in the:
    a) Innermost (first) shell? _____
    b) Second shell? _____
    c) Third shell? _____
2. Identify the element represented by the following Bohr Diagram:



Element:



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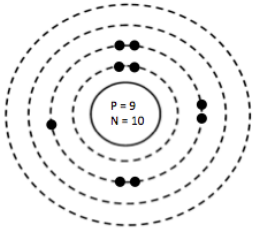

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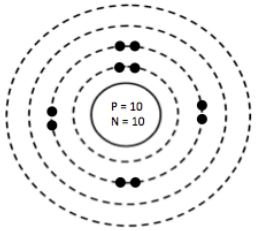

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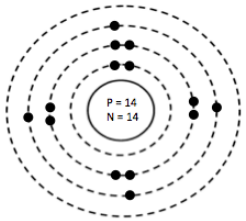
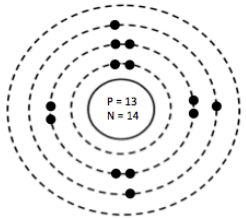


Element:



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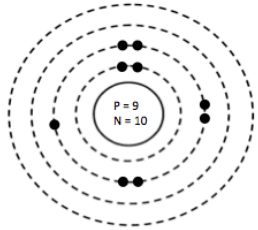
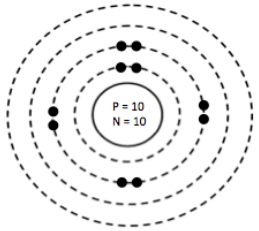


Element:



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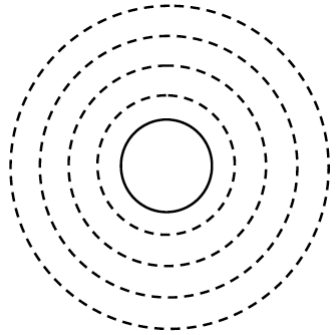
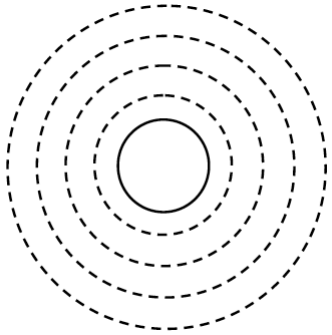
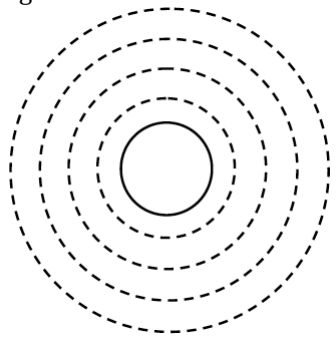
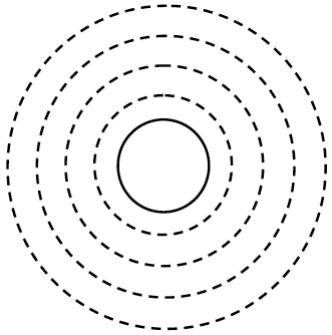
STATION 7
BOHR MODEL

Draw the Bohr diagram for the following elements:

Sodium 	Silicon 
Argon 	Potassium 

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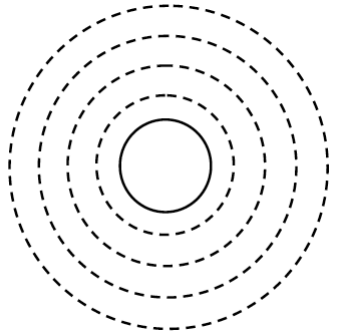
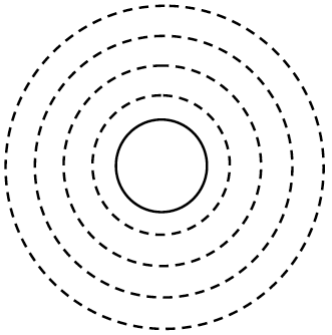
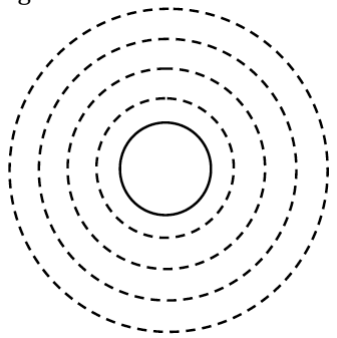
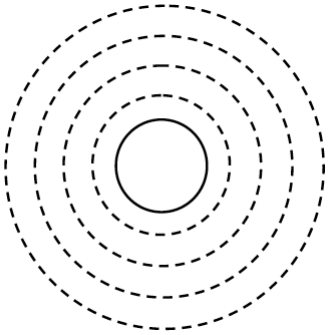
Sodium 	Silicon 
Argon 	Potassium 

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