### STATION 1 CLASSIFYING MATTER

### True or False?

1. An element substances.	cannot be broken do	wn into simpler
2. Compounds homogeneous.	can be categorized a	s heterogenous and
3. Mixtures are compounds.	e made up a variety c	of elements and
4. Two or mor make a compound.	e elements chemicall	y bonded together
Classify the following a	as an element, compo	ound or mixture.
5. Oxygen:		
6. Coffee:		
7. Sodium Chloride:		
8. Air:		
9. Tungsten:		
10. C <sub>12</sub> O <sub>22</sub> H <sub>11</sub> :		
about the content.	A <b>little uncertain</b> and will require some review.	to review this content.
<u> </u>	some review.	<u>i</u> i

## STATION 1 CLASSIFYING MATTER

## True or False?

content.

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 <sub>12</sub> O <sub>22</sub> H <sub>11</sub> :
I feel <b>confident</b> A <b>little</b> I definitely <b>need</b> about the <b>uncertain</b> and <b>to review</b> this

will require

some review.

content.

# STATION 2 SUBATOMIC PARTICLES

# 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			

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		

Fill in the following table:

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

I feel <b>confident</b>	A little	I definitely <b>need</b>
about the	<b>uncertain</b> and	<b>to review</b> this
content.	will require	content.
<u>i</u>	some review.	<u>i</u>

I feel <b>confident</b>	A little	I definitely <b>need</b>
about the	<b>uncertain</b> and	to review this
content.	will require	content.
	some review.	i i

## STATION 3 SUBATOMIC PARTICLES

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

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

sta	tements:					
a.	Has a charge:	and				
b.	Has the heaviest mass: and					
c.	Does not have a cha	rge:	-			
d.	Has the lightest mas	S:				
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 quantition	es in all <b>neutral</b> ator	ns: and			
	I feel <b>confident</b> about the content.	A little uncertain and will require	I definitely <b>need to review</b> this content.			

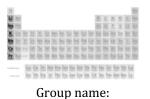
## STATION 3 SUBATOMIC PARTICLES

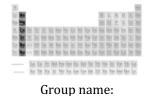
	lement ymbol	Element Name	Atomic Number	Atomic Mass/ Weight	Number of Protons	Number of Electrons	Number of Neutrons	
					11			
						6		
							20	
	tement	e the subatos: charge:	•				ng	
b.								
c.	Does not have a charge:							
d.	Has the lightest mass:							
e.	Is found in the nucleus: and							
f.	Has equal masses: and							
g.	Gives	the nucleus	a positiv	e charge:				
h.	Is fou	nd in shells	that surro	ound the	nucleus: _			
i.	Have	equal quant	tities in al				and	
!		confident	Al	ittle		I definitel		
	about conte		1	i <b>certain</b> ar ll require	nd	to review content.	v this	

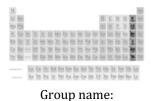
some review.

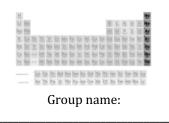
## STATION 4 PERIODIC TABLE

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











<u>Circle</u> the Periodic Table that has highlighted the most reactive metals.

Put a <u>square</u> around the Periodic Table that has highlighted the most stable elements.

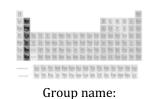
I feel <b>confident</b>	A little	I definitely <b>need</b>
about the	<b>uncertain</b> and	to review this
content.	will require	content.
i I	some review.	i

## STATION 4

PERIODIC TABLE

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





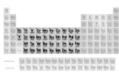
Group name:





Group name:

Group name:



Group name:

<u>Circle</u> the Periodic Table that has highlighted the most reactive metals.

Put a <u>square</u> around the Periodic Table that has highlighted the most stable elements.

I feel <b>confident</b>	A little	I definitely <b>need</b>
about the	<b>uncertain</b> and	to review this
content.	will require	content.
i !	some review.	<u> </u>

# STATION 5 PERIODIC TABLE

# STATION 5 PERIODIC TABLE

a) alkali metals family:	a) alkali metals family:
b) alkaline earth metals family:	b) alkaline earth metals family:
c) the top row of the transition metals:	c) the top row of the transition metals:
d) halogens family:	d) halogens family:
e) noble gas family:	e) noble gas family:

I feel <b>confident</b>	A little	I definitely <b>need</b>
about the	<b>uncertain</b> and	to review this
content.	will require	content.
i i	some review.	i

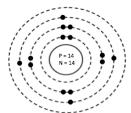
I feel <b>confident</b>	A little	I definitely <b>need</b>
about the	<b>uncertain</b> and	<b>to review</b> this
content.	will require	content.
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## STATION 6 BOHR MODEL

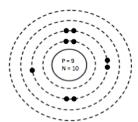
## 1. In a Bohr Diagram, what is the maximum number of electrons allowed in the:

aÌ	Innermost	(first)	shell?	

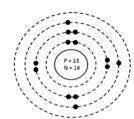
2. Identify the element represented by the following Bohr Diagram:



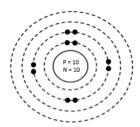
Element:



Element:



Element:



Element:

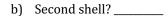
# I feel confident A little I definitely need about the uncertain and to review this content. some review.

## STATION 6

#### **BOHR MODEL**

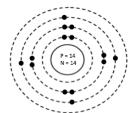
1. In a Bohr Diagram, what is the maximum number of electrons allowed in the:

a) Innermost (first) shell? \_\_\_\_\_

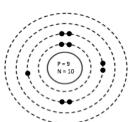


c) Third shell? \_\_\_\_\_

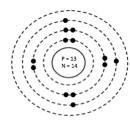
2. Identify the element represented by the following Bohr Diagram:



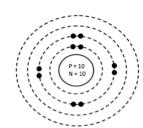
Element:



Element:



Element:



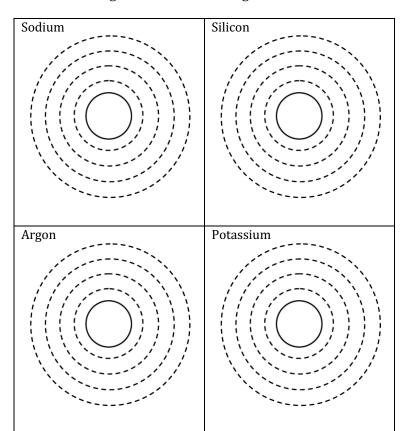
Element:

I feel <b>confident</b>	A little	I definitely <b>need</b>
about the	<b>uncertain</b> and	<b>to review</b> this
content.	will require	content.
	some review.	i 

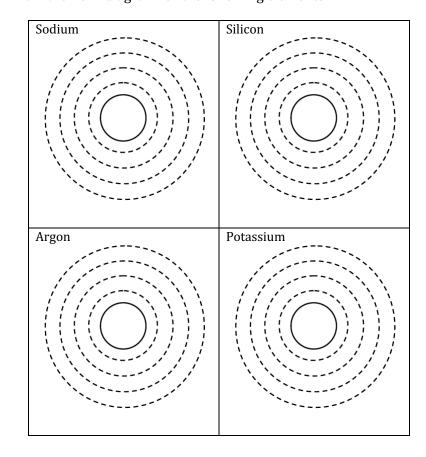
# STATION 7 BOHR MODEL

# STATION 7 BOHR MODEL

Draw the Bohr diagram for the following elements:



Draw the Bohr diagram for the following elements:



I feel <b>confident</b>	A little	I definitely <b>need</b>
about the	<b>uncertain</b> and	to review this
content.	will require	content.
	some review.	<u></u>

I feel <b>confident</b>	A little	I definitely <b>need</b>
about the	<b>uncertain</b> and	<b>to review</b> this
content.	will require	content.
	some review.	<u> </u>