

## Worksheet – Bohr Models

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

Make sure to write the symbol and atomic number (# of protons) for each model in the space provided. You will need to use your periodic table to find the atomic number.

### Bohr Models 1

In the spaces provided, draw Bohr model diagrams for the following elements:

H	Li	Na	K

1. What is the atomic number for H? \_\_\_\_\_ Li? \_\_\_\_\_ Na? \_\_\_\_\_ K? \_\_\_\_\_
2. In what family or group can you find Li, Na, and K? \_\_\_\_\_
3. In what ways are the Bohr model diagrams for these metals similar? \_\_\_\_\_

### Bohr Models 2

In the spaces provided, draw Bohr model diagrams for the following elements:

Be	Mg	Ca

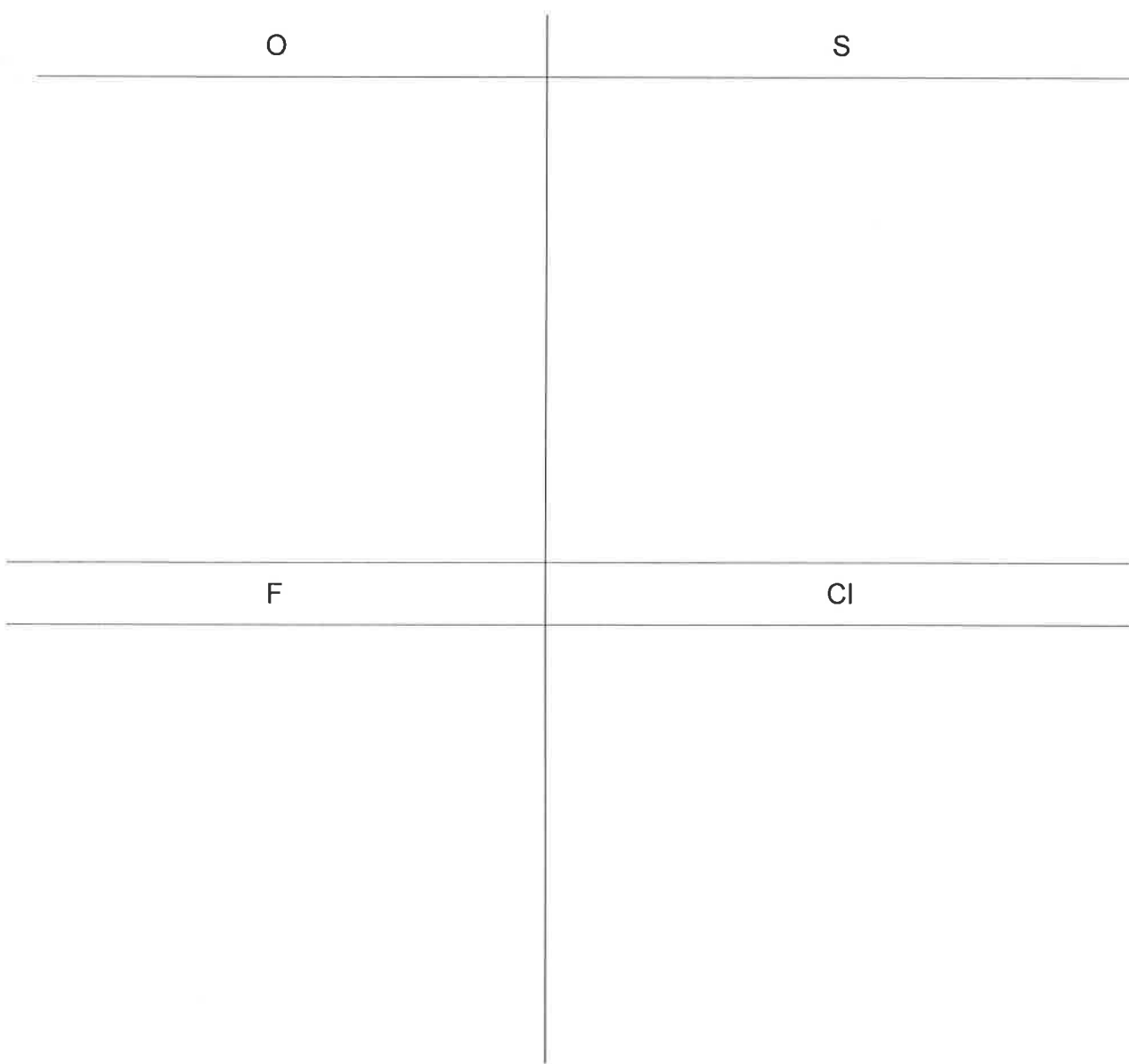
1. What is the atomic number for Be? \_\_\_\_\_ Mg? \_\_\_\_\_ Ca? \_\_\_\_\_
  2. What family or group can you find Be, Mg, and Ca? \_\_\_\_\_
  3. In what ways are the Bohr model diagrams for these metals similar? \_\_\_\_\_
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### Bohr Models 3

In the spaces provided, draw Bohr model diagrams for the following pairs of elements:

- (B, Al); (C, Si); (O, S); (F, Cl)

B	Al
C	Si



1. What is the atomic number for B? \_\_\_\_\_ Al? \_\_\_\_\_ C? \_\_\_\_\_  
 Si? \_\_\_\_\_ O? \_\_\_\_\_ S? \_\_\_\_\_ F? \_\_\_\_\_ Cl? \_\_\_\_\_

2. In general, in what ways are the Bohr model diagrams for the same family similar? \_\_\_\_\_

\_\_\_\_\_

## Bohr Models 4

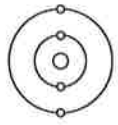
In the spaces provided, draw Bohr model diagrams for the following elements:

- He, Ne, Ar

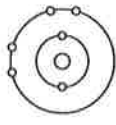
He	Ne	Ar

1. What is the atomic number for He? \_\_\_\_\_ Ne? \_\_\_\_\_ Ar? \_\_\_\_\_
2. What family or group can you find He, Ne, and Ar? \_\_\_\_\_
3. In what ways are the Bohr model diagrams for this family similar? \_\_\_\_\_  
\_\_\_\_\_
4. Do these elements want to gain or lose any electrons? Why or why not?

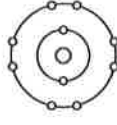
Identify the elements whose Bohr model diagrams are shown below. Write the names of the elements in the spaces provided.



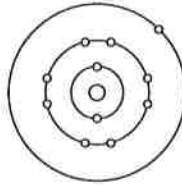
(a)



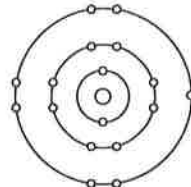
(b)



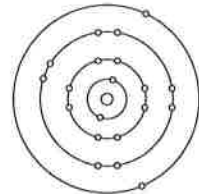
(c)



(d)



(e)



(f)

(a) \_\_\_\_\_

(b) \_\_\_\_\_

(c) \_\_\_\_\_

(d) \_\_\_\_\_

(e) \_\_\_\_\_

(f) \_\_\_\_\_

