Worksheet – Bohr Models & the Periodic Table

Name: _____

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? _____

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
O	S
F	Cl

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? _____

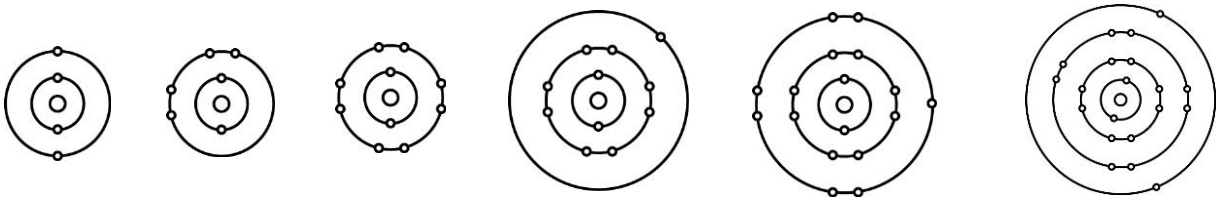
Bohr Models 4: In the spaces provided, draw Bohr model diagrams for the following elements:

- 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. **How many protons, neutrons & electrons does each element have?**



(a) (b) (c) (d) (e) (f)

(a) _____
- p=
- n=
- e=

(c) _____
- p=
- n=
- e=

(e) _____
- p=
- n=
- e=

(b) _____
- p=
- n=
- e=

(d) _____
- p=
- n=
- e=

(f) _____
- p=
- n=
- e=