1. Fill in the aufbau diagram for **Silicon**

5s\_\_\_

4p\_\_\_ \_\_\_ \_\_\_

3d\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

4s\_\_\_

3p\_\_\_ \_\_\_ \_\_\_

3s \_\_\_

2p\_\_\_ \_\_\_ \_\_\_

2s\_\_\_

1s\_\_\_

1. Fill in the following aufbau diagram for **Nickle**

5s\_\_\_

4p\_\_\_ \_\_\_ \_\_\_

3d\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_\_

4s\_\_\_

3p\_\_\_ \_\_\_ \_\_\_

3s \_\_\_

2p\_\_\_ \_\_\_ \_\_\_

2s\_\_\_

1s\_\_\_

1. Draw the orbitals for **Carbon** on the axis and the electron configuration below the axis.



1. Draw the orbitals for **Magnesium** on the axis and the electron configuration below the axis.



1. Fill in the aufbau diagram for **Strontium**

6s\_\_\_

5p\_\_\_ \_\_\_ \_\_\_

4d\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

5s\_\_\_

4p\_\_\_ \_\_\_ \_\_\_

3d\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

4s\_\_\_

3p\_\_\_ \_\_\_ \_\_\_

3s \_\_\_

2p\_\_\_ \_\_\_ \_\_\_

2s\_\_\_

1s\_\_\_

1. Fill in the following the diagram for **Bromine**.

6s\_\_\_

5p\_\_\_ \_\_\_ \_\_\_

4d\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

5s\_\_\_

4p\_\_\_ \_\_\_ \_\_\_

3d\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

4s\_\_\_

3p\_\_\_ \_\_\_ \_\_\_

3s \_\_\_

2p\_\_\_ \_\_\_ \_\_\_

2s\_\_\_

1s\_\_\_

1. Draw the orbitals for **Chlorine** on the axis and the electron configuration below the axis..



1. Draw the orbitals for **Beryllium** on the axis and the electron configuration below the axis.

