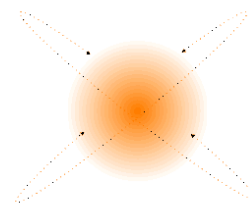


Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Chemistry

Worksheet

# Electron Arrangements



**Directions:** Describe the following:

Pauli Exclusion principle –

Aufbau principle –

Hund's Rule –

**Directions:** Write the full electronic configuration ( $1s^2 2s^2 \dots$ ) for each of the following elements.

Si \_\_\_\_\_

Ca \_\_\_\_\_

Mg \_\_\_\_\_

H \_\_\_\_\_

Na \_\_\_\_\_

N \_\_\_\_\_

Be \_\_\_\_\_

Se \_\_\_\_\_

**Directions:** Write the complete orbital diagram (  $\uparrow\downarrow$  ) for each of the following elements and circle the valence electrons.

Na \_\_\_\_\_

Ca \_\_\_\_\_

Cl \_\_\_\_\_

Ar \_\_\_\_\_

N \_\_\_\_\_

Ge \_\_\_\_\_

**"Imagination is the air of mind." -- Philip James Bailey**