

## Chem 2 Class 2 Homework

1. Review these two very short summaries on electron configurations and the Aufbau (“building up”) principle:

<https://www.thoughtco.com/definition-of-aufbau-principle-604805>

<https://www.thoughtco.com/aufbau-principle-electronic-structure-606465>

Note that the second of these contains a typo: “3d5s1” should be “3d54s1”.

2. Write down the electron configuration of the following elements:

O

F

Fe

Ga

3. What are the oxidation states of the metal in the following compounds:

$\text{WO}_4^{2-}$

$\text{OsO}_4$

GaN

4. The compounds CO and  $\text{CO}_2$  are stable and form readily – why is this not true of  $\text{CO}_3$ ?