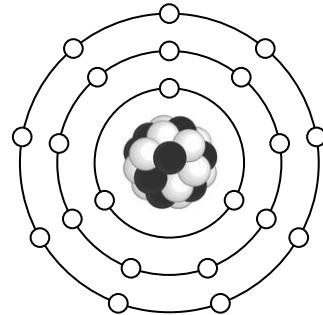


# CHEMISTRY

Rigellian Chemistry 105

Homework assignment #2



Part A: Balance the following chemical reaction equations.

(A blank may contain a 1 even though it would normally be omitted.)

Remember that chemical bonds come in two types: *ionic* where one element gives its outer electrons to the other element, and *covalent* where two elements share their electrons.

Example:  $Oi_3Z_2 + 3Gr_2 \rightarrow 3OiGr_2 + 1Z_2$

- 1)  $Is_3Nr_4 + Ov_2R_3 \rightarrow Is_2R_4 + OvNr$
- 2)  $2L_T + LIM \rightarrow ML_2 + LiT_4$
- 3)  $Dn_2Ie + Av_2IsR_4 \rightarrow Av_Ie + Dn_Is_R$
- 4)  $2Ov_2L_3 + 6RGr_2 \rightarrow OvGr_3 + 3\_\_\_\_\_\_$

Part B: Balance the following nuclear reaction equations.

Example:  $T^3 + T^4 \rightarrow Tx^6 + G^1$

- 1)  $L^{10} + Wi^{11} \rightarrow Gr-$
- 2)  $J^{25} + Ll^{14} \rightarrow Ov- + G^2$
- 3)  $Nk^{44} \rightarrow Ie^{43} + G^1$
- 4)  $Uo- \rightarrow An^{34} + Dn- + G^1$
- 5)  $Is^{17} \rightarrow L^{11} + G^2$