**Chemistry 1 / Chille** 

dots, brackets & charges

1) Using the Periodic Table, draw electron-dot structures for atoms of the following elements:

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a) lithium b) aluminum c) phosphorus d) sulfur e) iodine
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2) Using the Periodic Table, draw the electron-dot structures for the following ions:

a) fluoride ion,  $F^-$  b) calcium ion,  $Ca^{+2}$  c) oxide ion,  $O^{-2}$  d) potassium ion,  $K^{+1}$ 

3) Use electron dot diagrams to represent the reaction of barium with sulfur to form barium ions,  $Ba^{+2}$ , and sulfide ions,  $S^{-2}$ . Then, draw the  $e^{-}$  dot structure of barium sulfide.

4) Use electron dot diagrams to represent the reaction of sodium with oxygen to form sodium ions,  $Na^{+1}$ , and oxide ions,  $O^{-2}$ . Then, draw the e<sup>-</sup> dot structure of sodium oxide.