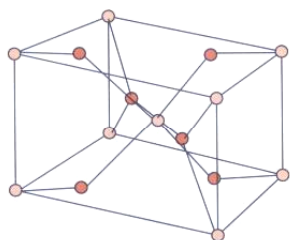
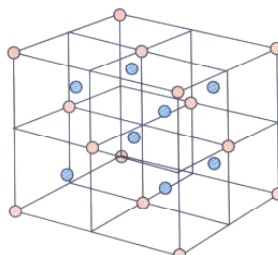


- How many atoms are in a cubic unit cell that has three atoms inside the cell, 4 atoms on corners, 2 atoms on faces and 2 atoms on edges?
- The sodium chloride cubic unit cell has chloride ions on each corner and on each face. The sodium ions are at the center and one on each edge. How many of each ion are in the unit cell?
- Determine the formulas of each compound from the unit cell pictures below. (Each picture is one unit cell)

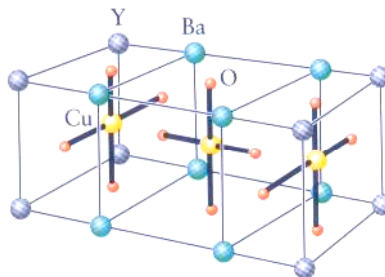
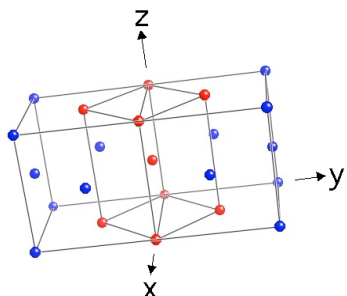


○ Ti
○ O

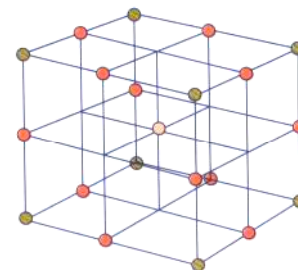
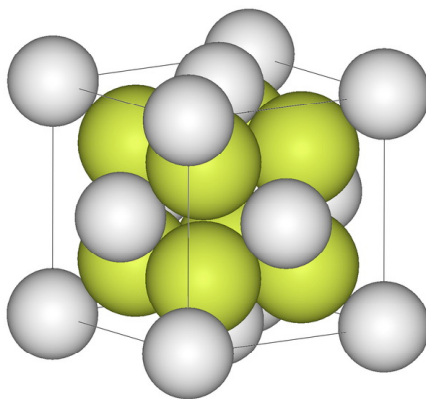


○ Ca (at opposite corners of small cubes)
○ F (at centers of small cubes)

blue = Fe
red = C

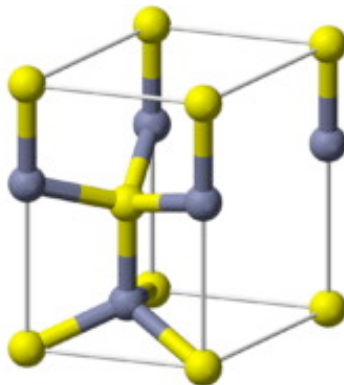


yellow = F
gray = Ca



○ Ti
○ Ca
○ O

yellow = Zn
gray = S



red = La
blue = O
orange = Mn

