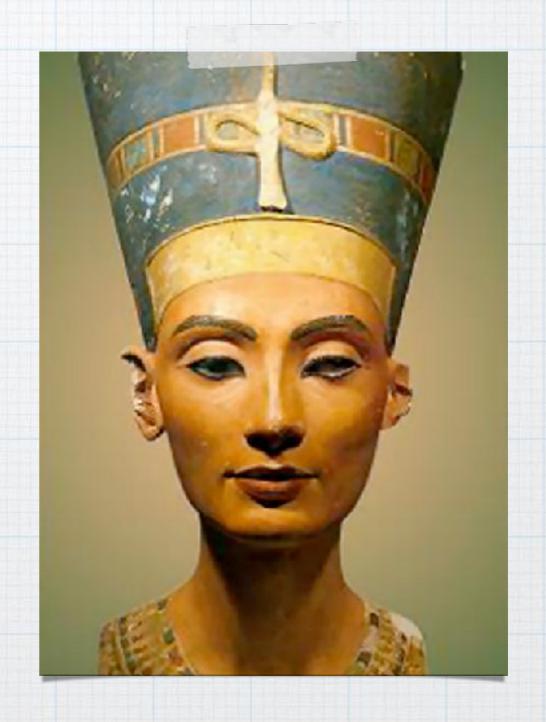
Nefertiti's Makeup

- * Was Nefertiti's makeup poison?
- * Recent chemical analysis of ancient Egyptian tombs shows that phosgenite (Pb2Cl2CO3) was used by Egyptians as fine powders in make-up and eye lotion



- * Find the percent of lead in phosgenite.
- * Lipstick containing over 12% lead have recently been banned by the FDA. By these standards, would Nefertiti's make-up be considered toxic today?



- * Find molar mass
- * Pb2Cl2CO3
 - * Pb = 2 x 207 = 414
 - * CI = 2 x 35 = 70
 - * C = 1 x 12 = 12
 - $*0=3\times16=48$
 - * = 544 g/mol

- * Find percent lead
 - * = (Mass of lead/ mass of molecule) x 100
 - * = (414 / 544) x 100
 - * = 76 % lead