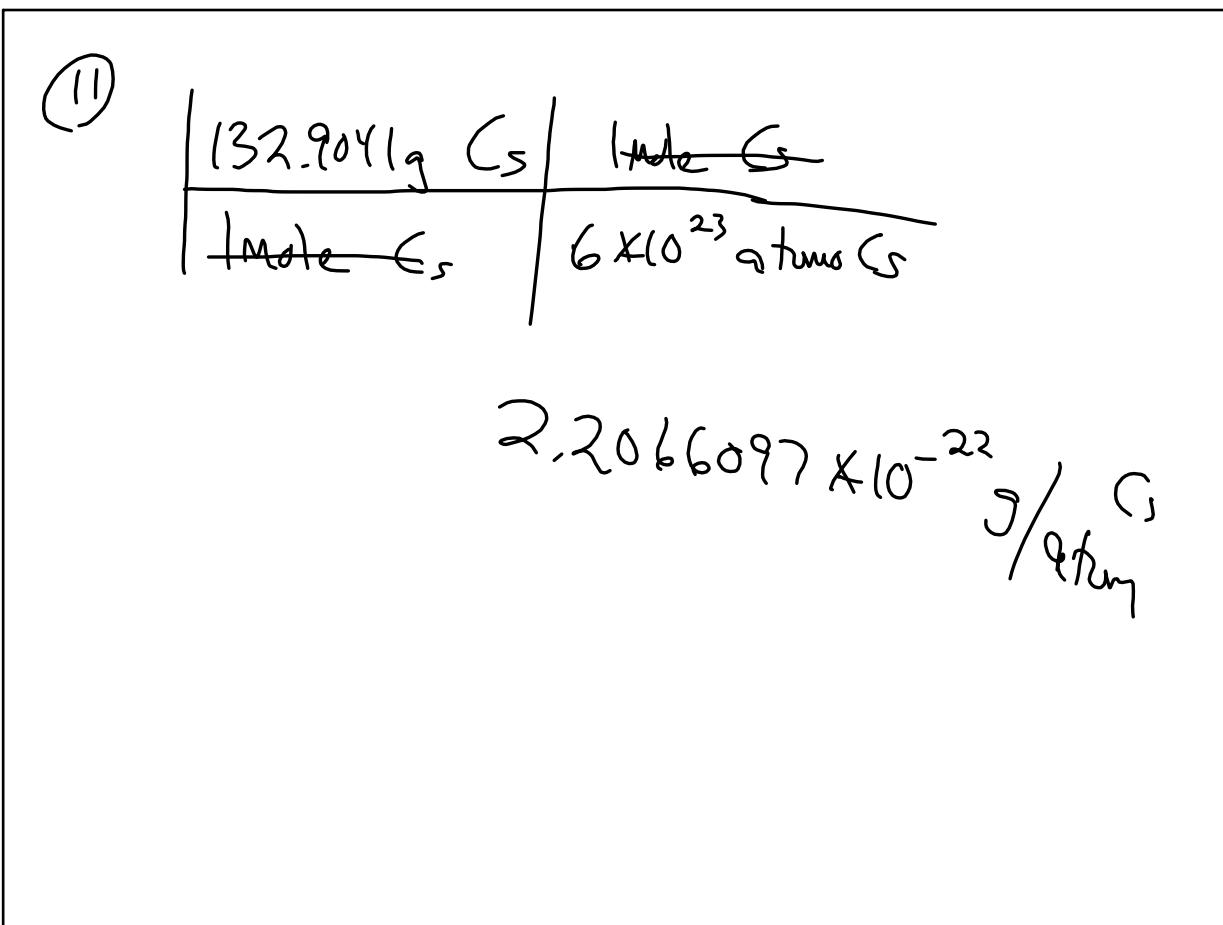
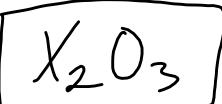


Oct 5-7:26 AM



Oct 5-8:21 AM

(9)



60% by mass = X

$$\%X = \frac{X_2}{X_2O_3} = 0.6$$

$$\frac{100}{X_2O_3} = \frac{0.6}{1}$$

$$\frac{100}{0.6} = \frac{X_2O_3}{1}$$

$$\boxed{X_2O_3 = 166.67}$$

$$\boxed{X = 50 \text{ g/mole}}$$

$$\boxed{O = ? \text{ g/mole}}$$

$$X_2O_3 = 166.67$$

$$\frac{-100}{(2 \times 16)} (2 \times O)$$

$$O_3 = 66.67$$

$$\boxed{O = 22.22 \text{ g/mol}}$$

Oct 5-8:23 AM

(12)

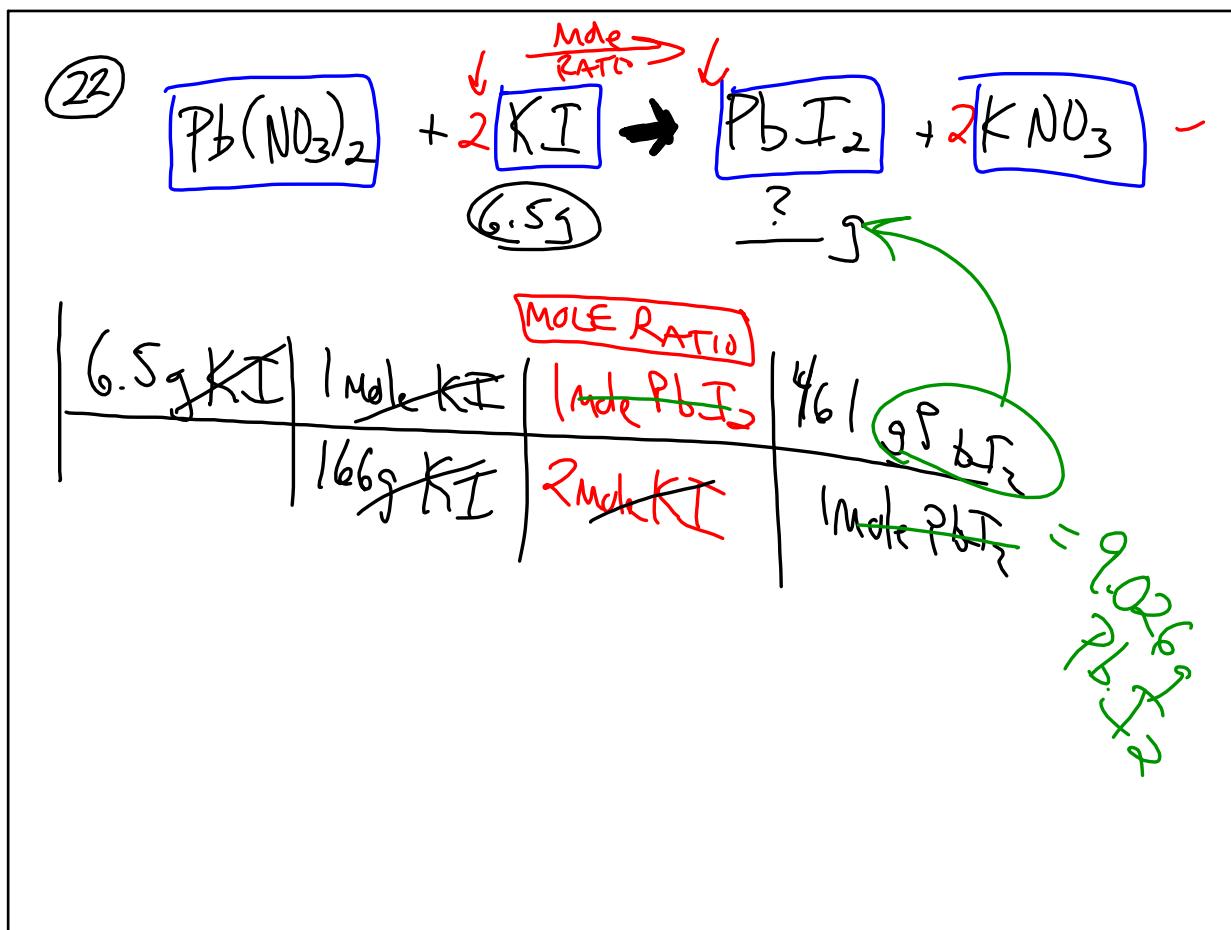
— atoms

2g Al

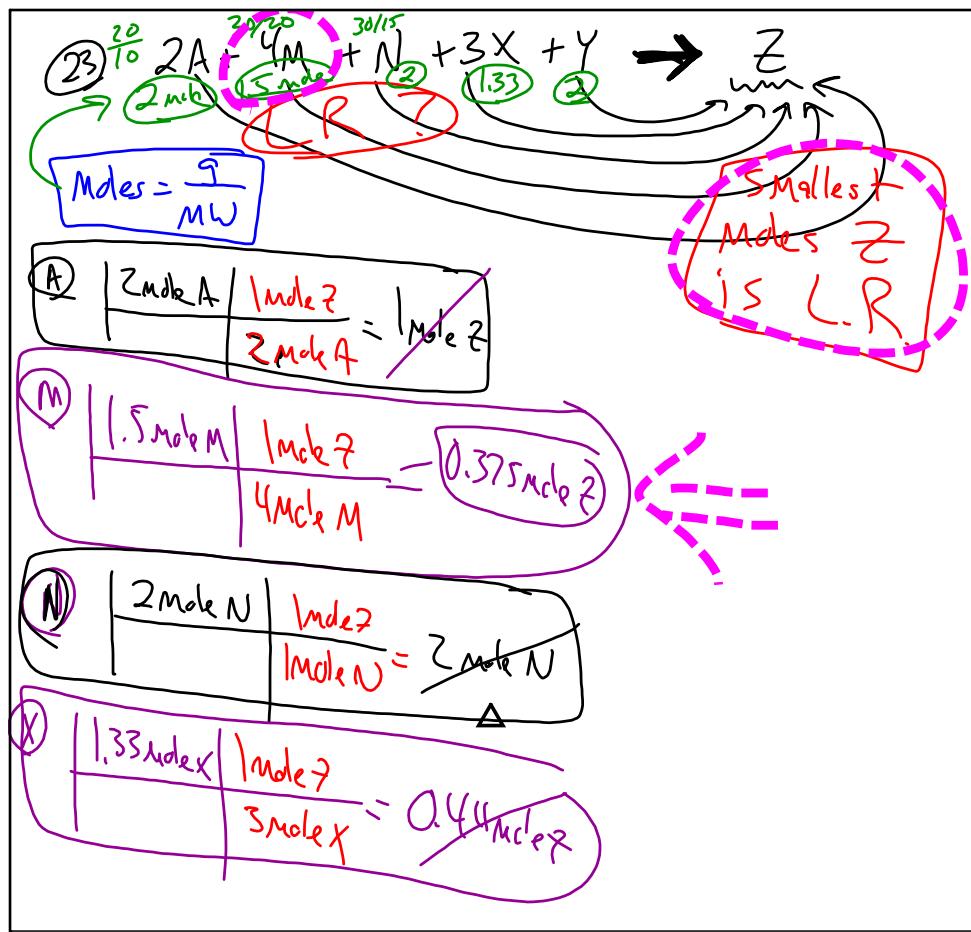
2g Al	1 mole Al	6×10^{23} atoms Al
26.98153 g Al	1 mole Al	



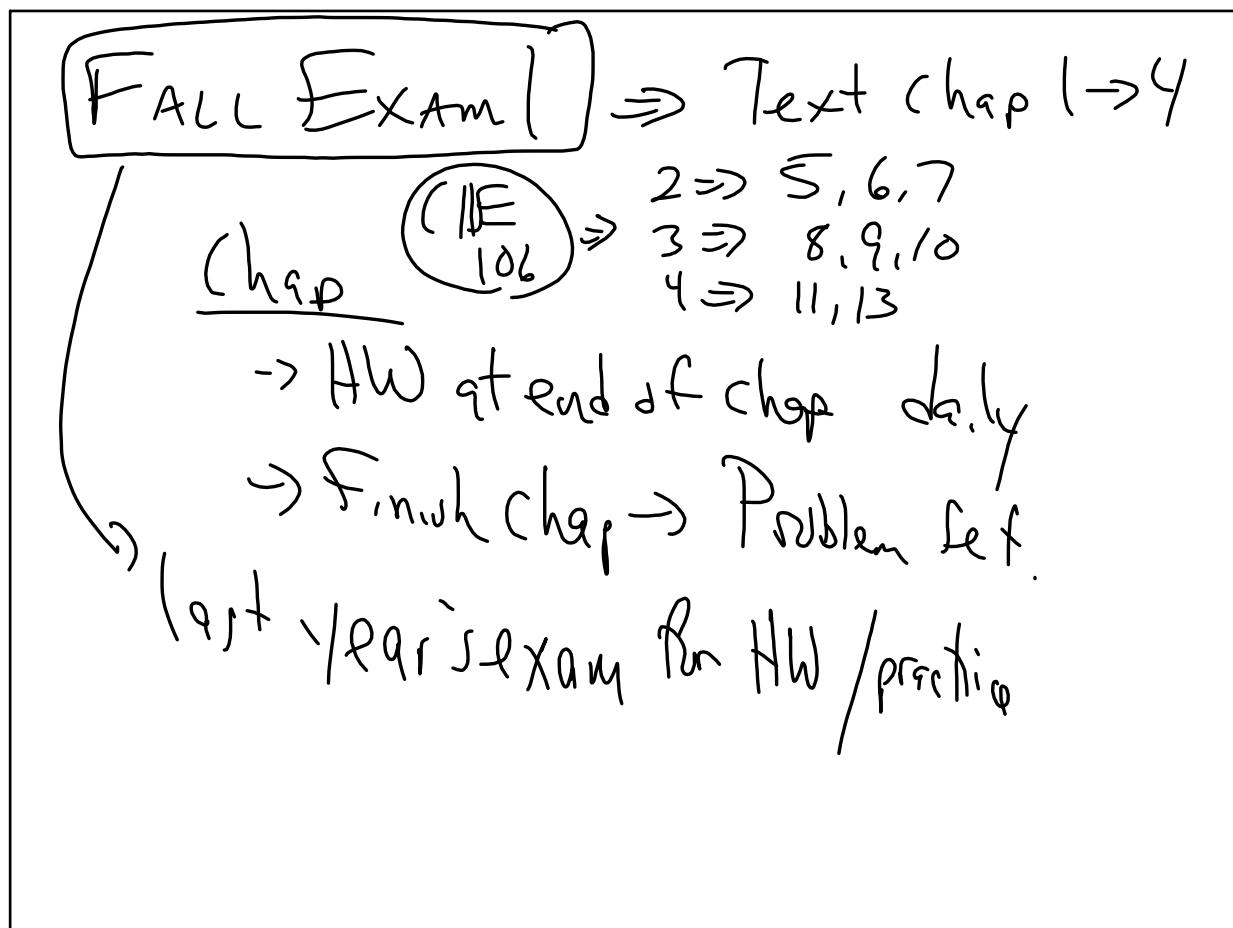
Oct 5-8:30 AM



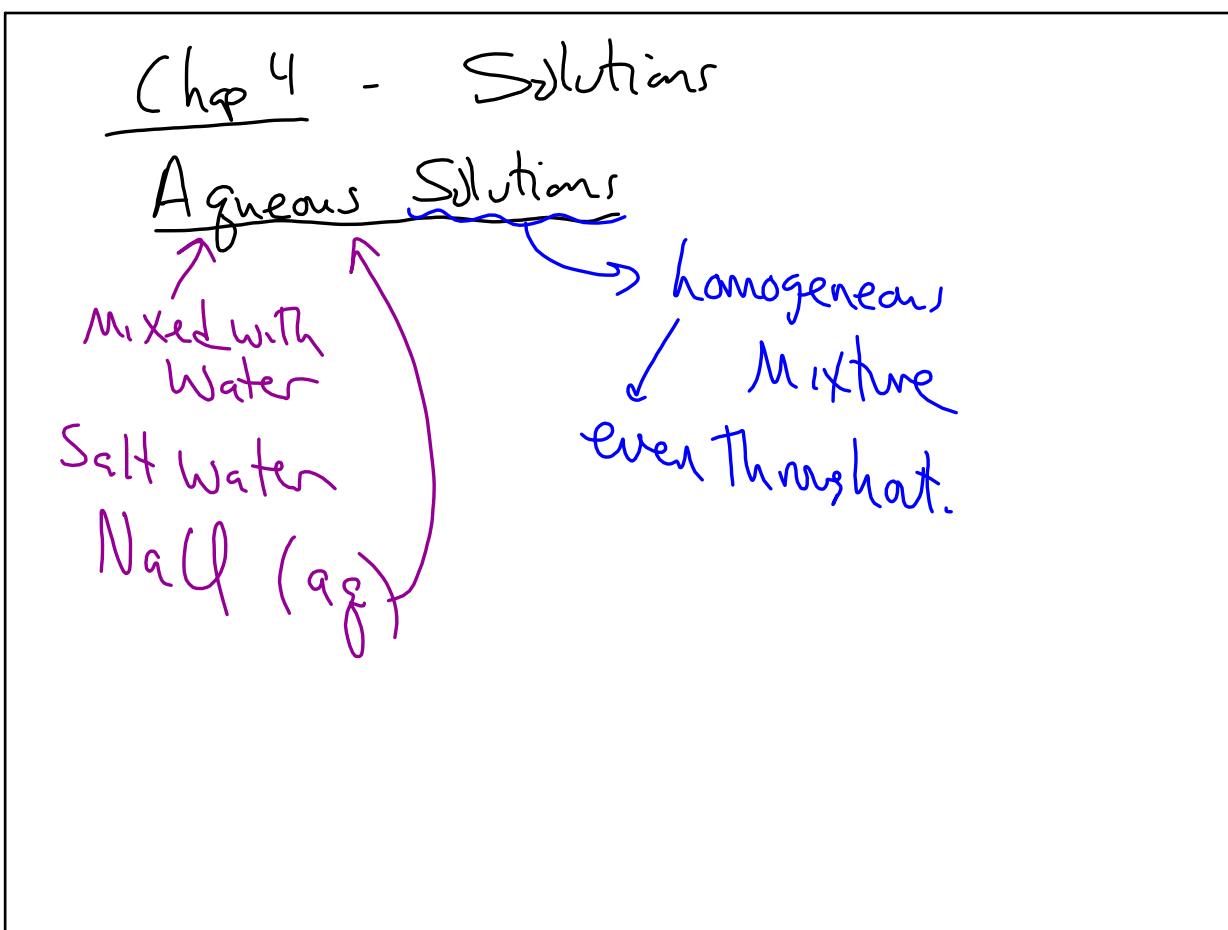
Oct 5-8:35 AM



Oct 5-8:44 AM



Oct 5-8:58 AM



Oct 5-9:03 AM

Make a Solution

Solute + Solvent.

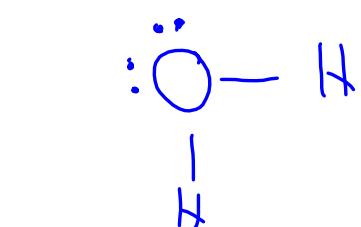
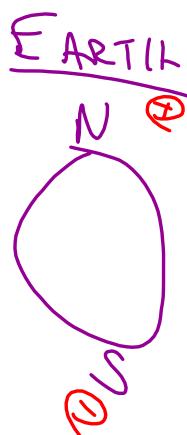
Gets dissolved
does the dissolving

Ex $\text{NaCl}(\text{aq})$ Salt. Water

P125 Table 4.1 \Rightarrow Solubility.

Oct 5-9:13 AM

Solubility - will it dissolve?



Oct 5-9:18 AM

Solution

Solvent
Water (l)
(l)

Solute
Salt (s) → Saltwater
(l) →

ex

HW 4 | #7

Oct 5-9:30 AM