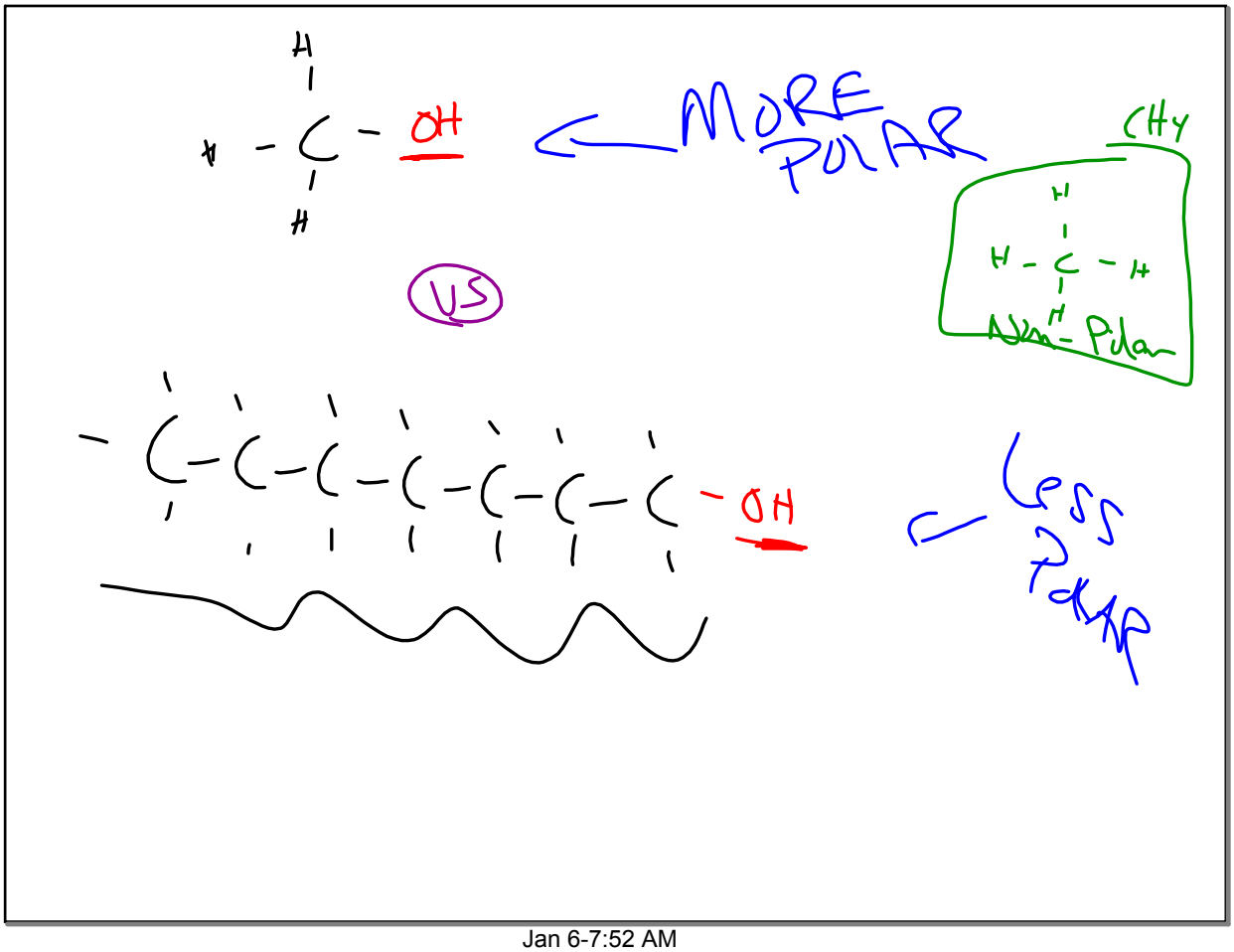


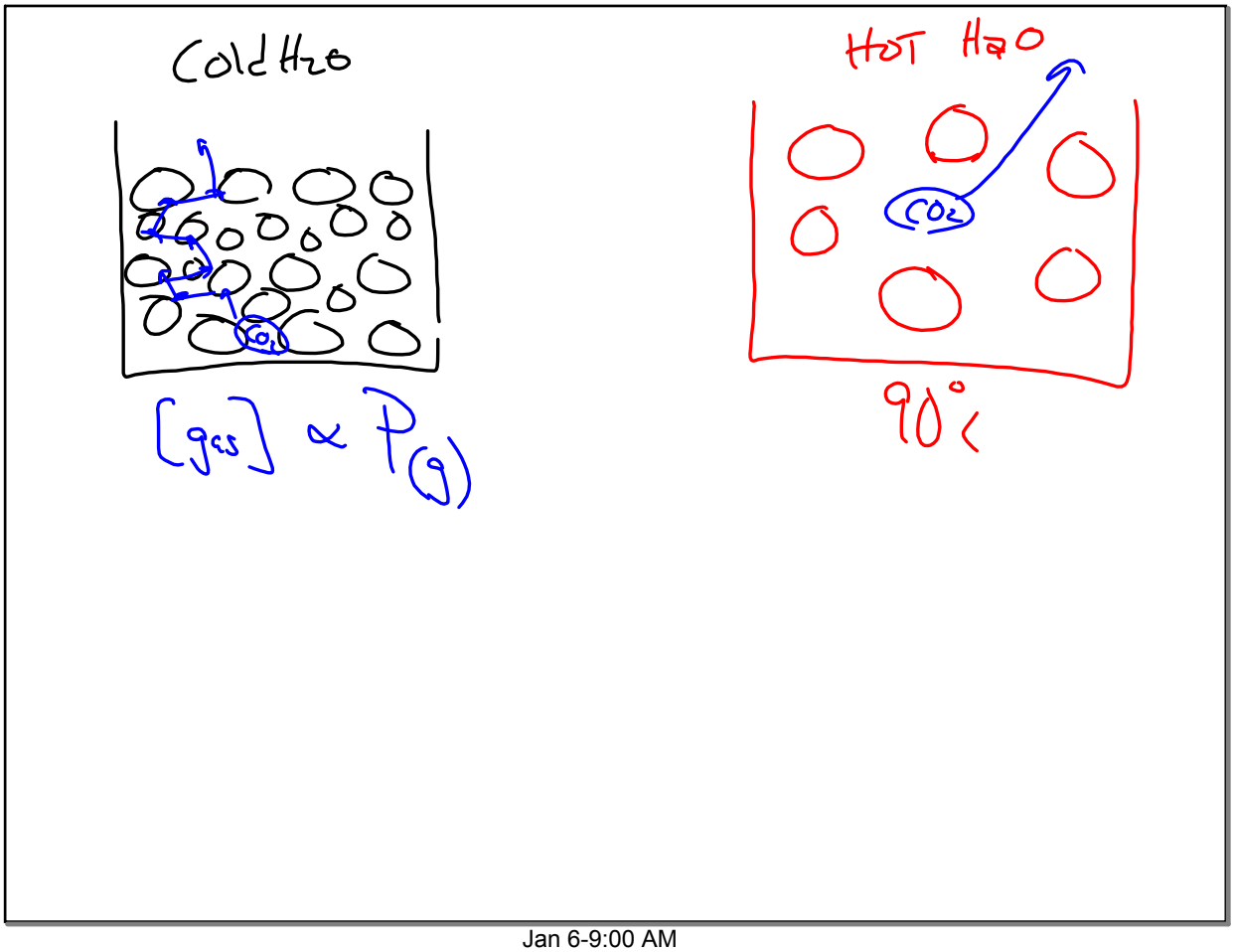
Jan 6-7:52 AM

↑ Solubility and RATE

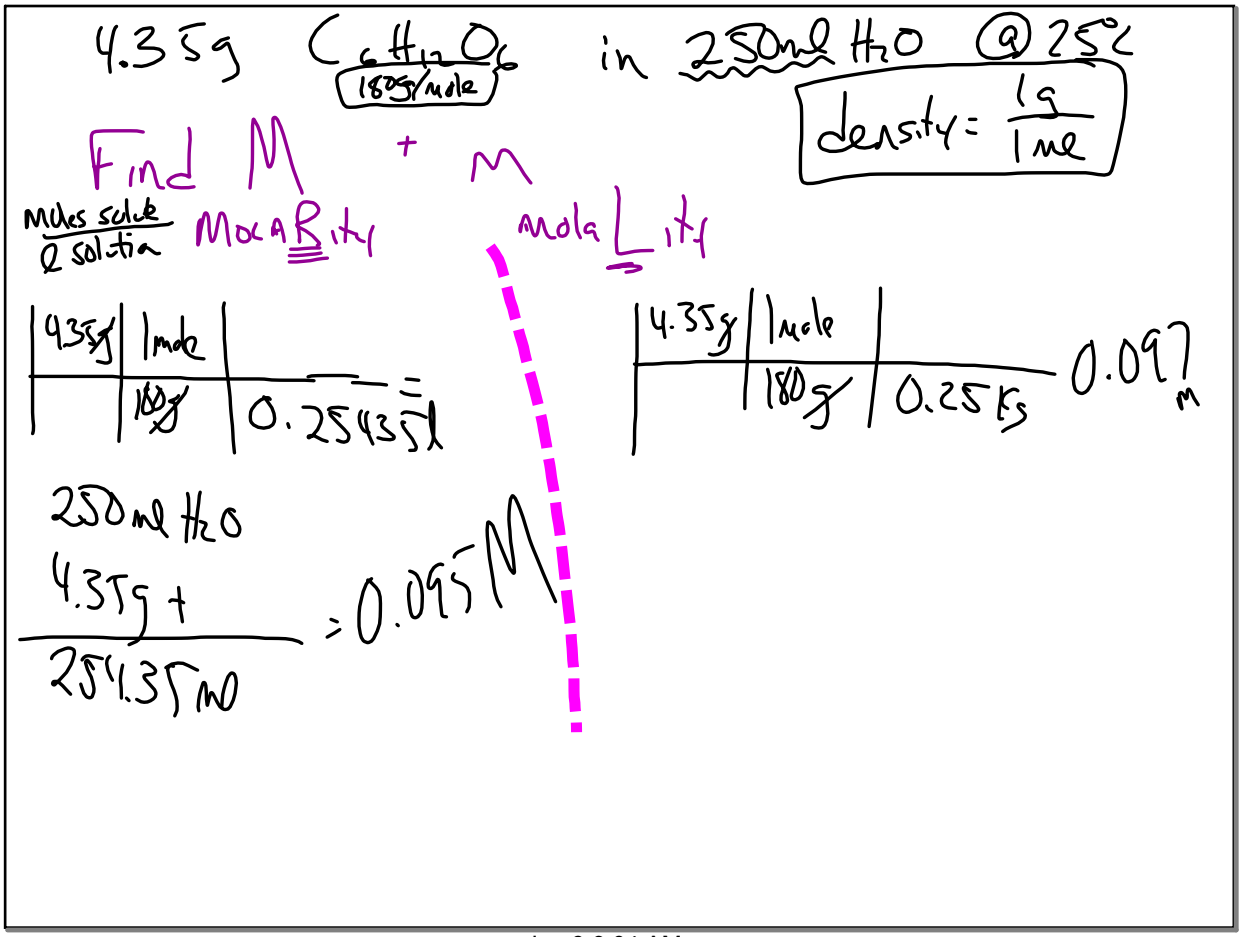
Dissolve Fastererererer

1. Stir
2. Cube -> Crystal -> Powder -> ↑ KE
   ↑ Surface area solute
3. Heat
4. Like bonding Solute-Solvent
   Polar -> Polar -> Ionic } Non-Polar -> NP
5. [ ] to start
   concentration [ ]

Jan 6-8:33 AM



Jan 6-9:00 AM



Jan 6-9:04 AM

Colligative Properties

"Rich get Richer, Poor get Poorer."

When you add a solute to a solvent

Hot gets hotter, cold gets colder.

(↑ BP) (↓ FP)

Jan 6-9:16 AM

$$\Delta T = (K * m)\,i$$

ΔT: Change in BP/FP

K: constant (K_b, K_f)

m: Molality

$m = \frac{\text{Moles solute}}{\text{Kg solvent}}$

i: Van't Hoff factor = # of ions in solution

$NaCl = Na^{+1} + Cl^{-}$ ②

$CaCl_2 = Ca^{+2} + 2Cl^{-}$ ③

$CH_4 \rightarrow$ ① Molecule

$C_6H_{12}O_6 \rightarrow$ ① Molecule

Jan 6-9:25 AM

13 / 43. 50 a+b

Jan 6-9:31 AM