## Answers to the homework that was due today

## How do we show something dissolving? CAeMistry: http://genest.weebly.com Name Stop in for help every day at lunch and Tues, Weds., &Thurs after school! Period After-hours question? Email me at home: eagenest@madison.k12.wi.us From the textbook, copy the diagrams from page 483 in good detail, including the caption: Now add a tiny "+" to the hydrogen atom on each water molecule and a tiny "-" to each oxygen atom on a water molecule in your drawings above. (that will be a few dozen of each symbol altogether) For each of the following, Underline compounds that are molecular, circle compounds that are ionic 3. C<sub>2</sub>H<sub>3</sub>OH MgCl2 CH<sub>3</sub>OH<sub>(L)</sub> For each substance below write a dissociation equation (something like "A(s) -> B(aq) + C(aq)") to describe that substance dissolving: LiCl This is Aionic omolecular (don't forget to write solid, liquid, aqueous next to each symbol) (ks) > Li to + Cl (4)

CH3OH(I) This is <u>□ionic molecular</u> (don't forget to write solid, liquid, aqueous next to each symbol)

(c)

NaBr(s) This is monic □molecular (don't forget to write solid, liquid, aqueous next to each symbol) (d)

 $C_{12}H_{22}O_{11(s)} \ \ This is \ \underline{\ \ } \underline{\ \ \ } \underline{\ \ } \underline{\$ 

4. Write the correct formula that each compound would have. Remember, the total charge of any substance is zero charge

3.50	O <sup>2-</sup>	OH-	PO <sub>4</sub> <sup>3-</sup>
Mg <sup>2+</sup>	MgO	Mg(OH)2	Mg 3(PO4)2
K <sup>+</sup>	K20	KOH	K3 P04
NH <sub>4</sub> <sup>+</sup>	(NH4)20	NHYOH	(NHy)3 Poy
Iron(III) ion {look up the symbol on your chart}	Fe <sub>2</sub> O <sub>3</sub>	Fe(01)3	Fe POy

5. For each description below, fill in one row on the table below

	A single Cation (show charge)	A single Anion	Formula
+	(snow charge)  Mg <sup>2+</sup>	(show charge)	MgCl <sub>2</sub> (You made this in lab last week)
###	H <sup>+</sup>	PO4 3-	H <sub>3</sub> PO <sub>4</sub> (a semi-harmless acid found in cola)
	A13+	02-	Al <sub>2</sub> O <sub>3</sub> ('rusty aluminum', a major component of clay)
			* C ( )

6. Draw a cartoon, similar to the drawing in #1 to show the dissolving of MgCl.

a: What can make a substance ionic besides a metal?

Answer: NHy

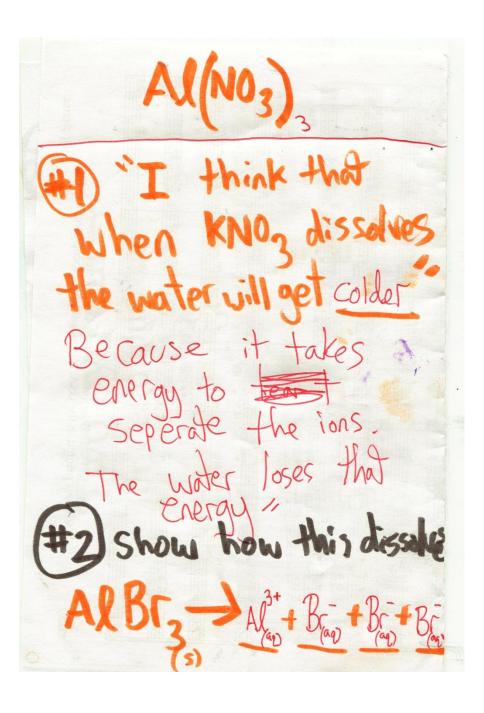
PURPOSE: HOW DO WE DEPICT DISSOLVING SOLIDS THAT ARE "COMPLICATED"?

of oluminum nitrate.

A13+ 103+103+103-3

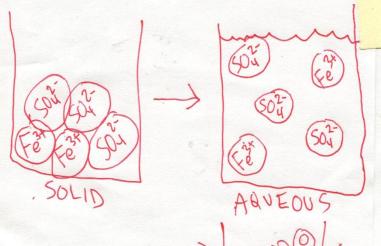
AI(NO3)3

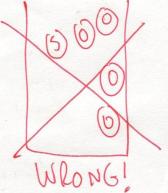
One alaminum atomi and three nitrates.



$$Z_{n_3}(Po_y)_{2_{(s)}} \rightarrow Z_n^{2t} + Z_n^{2t} + Z_n^{2t} + Po_y^{3} + Po_y^{3}$$







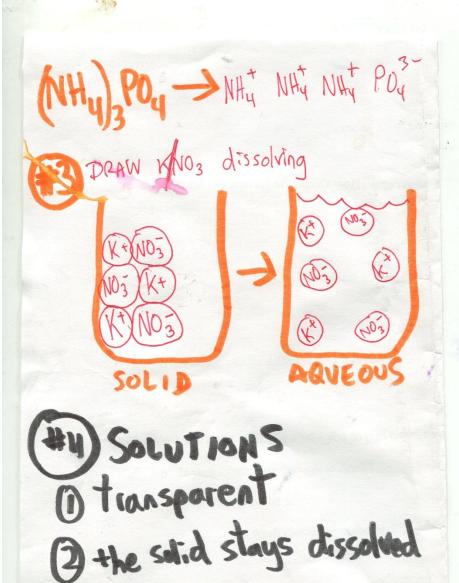
Rule: if an ion is

just one type of element,
it exists as single atoms

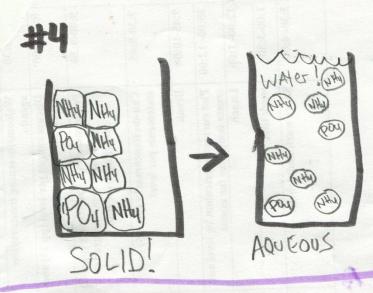
example

Feally would exist as Fezt Fezt No- No
Co(No3)2 exists as Cat No- No
That's three ions.

After



3) are homogenous



A solution is

(1) transporent

(2) the solid word settle out

(3) & ARE HELLEDGE

HOMOGENEOUS

## Here are a couple of hints to help you get started on tonight's Trikke Sheet Homework (download separately at hhttp://genest.weebly.com:

