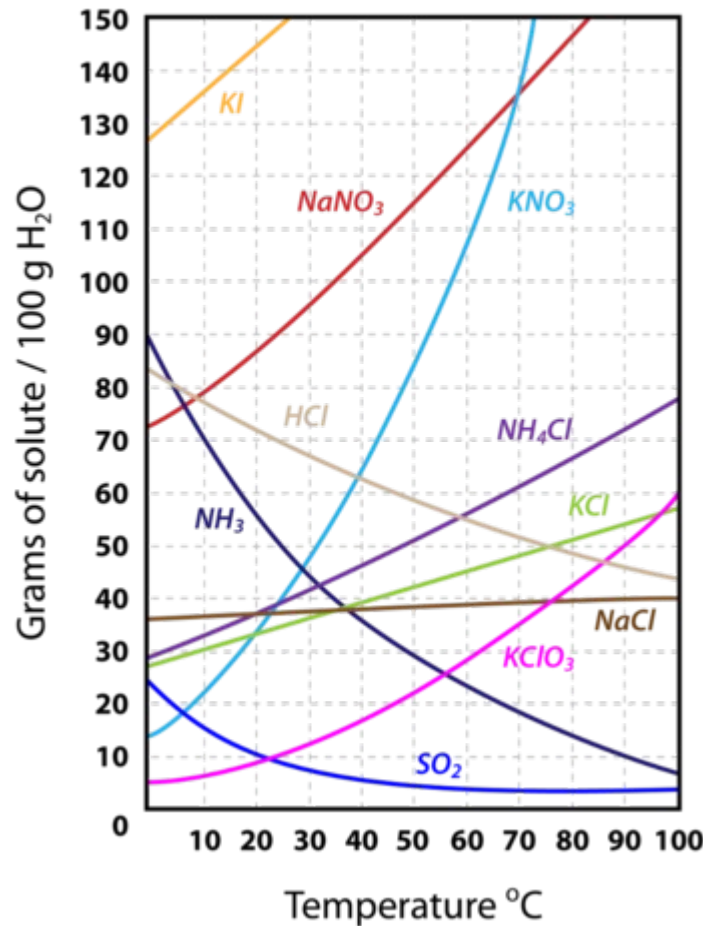


Tro - Ch 13 Solutions; Colloids

As you write your answers on your paper, label the first row just like the first column. Then, put your work, drawings, or answers underneath. We are skipping the untested portions in the book-p.593-610. These are really COOL pages that deal with your life: everything from ice cream to eating pasta – but, it isn't on the AP Exam. Keep reading – I know you are interested:)

| | | | | | |
|--|---|---|-------------------|---|---|
| Aqueous solutions, solubility, entropy, miscible | Solutions | http://www.bozemanscience.com/ap-chem-015-solutions | 9:41 | Draw figure 13.4 and Table 13.2 from page 575 FP 13.1 (hexane is non-polar, BTW) & SAQ # 1 | p.571-577 Ch 13 Sec 1&2 |
| Enthalpy of solution | Energies of Solution Formation | https://www.youtube.com/watch?v=fS6AwXxrGhY | 3:57 | List the three energy changes in solution formation on p. 578 and whether they are exothermic or endothermic and why CC 13.2, #35 | p.577-581 Ch 13.3 |
| Solubility curve graph | Factors affecting Solubility | https://www.youtube.com/watch?v=AG6wcmrYRro | 10:55 | -Answer the 6 questions (he says: “on your own”) starting at 4:25 in the video. -Answer the 3 questions concerning the graph 1 below: solubility curves | p.582-584 Ch13.4 |
| Expressing Concentration | Yep, there is more than just $M = \text{mol/L}$ | https://www.youtube.com/watch?v=nvUryorQoI4 https://www.youtube.com/watch?v=zzhCJgPflu8 (optional) | 6:47 33:13 | -Make a table (like p.587) of the 7 ways to express concentration. -FP 13.4 (show all work) -Read p.590 The Dirty Dozen & answer the question at the end. | p.585-592 Ch 13.5 |
| Chemistry in your Day & Colligative Properties | Antifreeze & Differences between FP & BP | https://www.youtube.com/watch?v=hOhgXRukRDg | 5:09 | -Take notes from Professor Dave's video about the difference between BP and FP as a solute is added. You won't be doing these calculations. -Read Antifreeze in Frogs: write a comment about this. Whoa! | p.603 |

Solubility Curves



GRAPH 1:

1. Why does the solubility of a gas decrease as the temperature increases?
2. Is the solubility of NaCl affected by solvent?
3. What is the solubility of KNO₃ at 50°C?