**Purpose:** To give you practice with questions that use the stoichiometry road-map.

This homework set is due **Mon, 3/24**. Work must be shown for each problem, including units and significant figures to receive full credit.

**Task:** Complete questions 5, 7 and 17 from chapter 10 of your online textbook and the Day 4 synthesis question below.

**Resource information:**

***The stoichiometry road map***

***Important words to define AND know:***

 Write a definition and the possible ways these words can be used as conversion factors

*Ex. “Speed” is the rate at which an object moves over a distance.*

 *Possible conversion factors:* $\frac{x miles}{1 hour} and \frac{1 hour}{x miles}$ *if we’re talking about travelling by car.*

* Molar mass:
* Avogadro’s number:

**Homework problems:**

5. How many atoms are in 1.14 moles of sulfur trioxide?

7. Find the molar mass of PCl3.

17. Calculate the mass, in grams, of 2.50 mol of iron (II) hydroxide.

DAY 4 SYNTHESIS QUESTION:

If you have 34 g ammonium sulfate, how many formula units of ammonium sulfate do you have?