

Alternate Assignment for 10 points of lab grade:

This assignment is due April 13th. Please turn in one sheet of paper (notebook paper is fine) with the answers to the following questions.

Watch the video at <http://web.fscj.edu/Milczanowski/Three2/sto32.swf>.

Questions 1: How many grams of NH₃ are produced from the reaction of 16.0 grams of N₂ according to the equation : $N_2 + 3 H_2 \rightarrow 2 NH_3$

Show all work.

Watch the video at <http://web.fscj.edu/Milczanowski/videos/Movie5.html>

Question 2: Does white light contain energy in the blue wavelength?

Question 3: What part of the instrument separates light into its various components?

Question 4: What part of the instrument keeps unwanted wavelengths from reaching the sample?

Question 5: What part of the instrument identifies how much light it sees and transmits this information to the meter?

Question 6: Describe how you would make 2.00 L of a 0.600 M solution of FeCl₃. Show calculations. Answer in complete sentences beginning with the words, "I would..."

Question 7: Describe how you would make 10.0 mL of a 0.150 M solution of FeCl₃ starting with a 0.600 M solution. Show calculations. Answer in complete sentences beginning with the words, "I would..."