MONDAY MORNING LECTURE

Introductions
A. Welcome to the MTU Chemistry department’s Summer Youth Program!
B. Introductions: yourself and assistant (Name, your role at the University, where you are from, what you most about chemistry
C. Give students an adjective that begins w/ the first letter of your name that describes you, then ask students to do the same. (EXAMPLE: Kelley is Kind). If students can’t think of one, ask others to help.

II. Write “What is chemistry?” on the board, then record answers from students on board. Some good answers are:
A. The study of materials (matter)

“Can you think of anywhere there ISN’T any matter”?

B. The study of the interaction of matter
C. The study of the changes that matter undergoes
D. The "Central" Science
E. Used in all sciences and engineering
F. Required for 1st year students in any science or engineering field.
G. Indeed, WHAT ISN’T CHEMISTRY???

III. THINGS THAT WILL BE COVERED THIS WEEK
A. Go over syllabus w/ students, day by day, and comment on the different activities.
B. Mention that much of time is spent in lab and GOGGLES MUST BE WORN AND SAFETY RULES MUST BE FOLLOWED IN THE LABS!
1. Goggles will be worn whenever chemicals and/or dirty glassware are present in the labs.
2. Safety rules (and consequences of not following rules) will be discussed in greater detail in lab.
C. Explain that you will meet in 102 in the morning, spend day in lab (meet in lab AFTER lunch, too), then end day in CLC.
D. Explain group roles and how they will be assigned.
E. Explain Adoption application
F. Explain Student Demonstrations (Friday)
G. Explain Puzzle assignment (find a puzzle and bring it in Friday Morning)

IV. ENERGIZER (You pick one…)

V. EDUCATION SURVEY
A. THINGS THAT WILL BE COVERED THIS WEEK – go over syllabus w/ students, day by day.
B. Ask for a show of hands for the following questions just before handing out the survey:
C. How many students haven't had any chemistry yet?
D. How many have had 1 year?
E. How many have had > 1 year?

VI. Tell students that it will be necessary to go over a lot of introductory material to other students, please be patient and please help explain things to those who haven't had any chemistry.

VII. VIDEO? "XXXXXXXX" something interesting that gives students the idea that chemistry involves many things.
OTHER TIPS

1. SLOW DOWN! Students work very fast. Give an introduction to both the theory and the techniques involved in the experiment. Be sure to cover safety. Go over post lab Q's in class.
2. Tell students where reagents, supplies, common equipment will be placed.
3. Show students how to use balances. Be sure to remind them to ALWAYS WEIGH IN A CONTAINER...

*Question games – try these during the breaks. Only answer “yes” or “no” questions with “yes” or no”! DO NOT GIVE AWAY ANSWERS! These sometimes take all week for students to figure out!*

1Q. A man hobbled into a restaurant. He ordered food and then left after one bite. Later, he committed suicide. Why?

1A. The man was in plane crash. His wife was killed in the plane crash. His brother, the pilot, served him meat which he told husband was penguin.

2Q. A man walked into a drugstore and asked the pharmacist for a drink of water. The pharmacist pulled out a gun and aimed it at the man. The man said, "Thank you" and walked out. What was wrong with the man?

2A. The man had hiccups.