WELCOME TO CHEMISTRY WITH MRS. MARKS

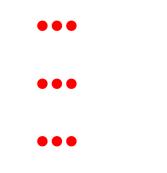


LEARNING TARGETS

- I understand that it is okay to make mistakes in chemistry class, but I should learn from those mistakes.
- I understand that I should never stop trying.
- I can explain all classroom policies and procedures.
- I can identify and describe the purpose of all laboratory equipment.

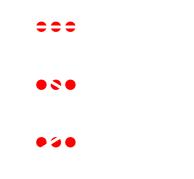
LEARNING CHEMISTRY Nine-Point Problem

Can you connect the nine points with 4 straight lines without lifting your pencil?



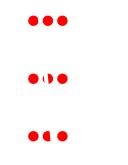
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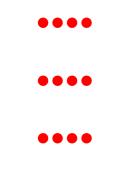
LEARNING CHEMISTRY Nine-Point Problem

Now try connecting the points with only 3 lines.

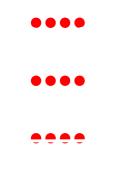


12-Point Problem Applying what you've learned!

What is the least number of straight lines necessary to connect these twelve dots without lifting your pencil?



12-Point Problem Applying what you've learned! What is the least number of straight lines necessary to connect these twelve dots without lifting your pencil?



What are your thoughts regarding chemistry?

- Your experience learning chemistry may be like these exercises
- You may have an underlying assumption of the problem causing you to unconsciously confine the 9 or 12 dots



Chemistry can be easy if...



- you recognize that you are unconsciously confining the problem making it impossible to solve
- you do not confine your concept of chemistry to a preconceived attitude that learning chemistry will be difficult
- you choose positive associations for your concept of chemistry



But most of all....

KEEP AN OPEN MIND





- STUDY REGULARLY AND
 OFTEN
 - >disciplined study habits
 - ≻do not "cram"
 - ➢ review on a daily basis
 - ≻do not become complacent



 USE THE OBJECTIVES
 be sure "you can" complete all learning targets
 exams/quizzes are always based on learning targets
 make your learning more efficient & focused



LEARN THE "LANGUAGE" OF CHEMISTRY

keep up with the key terms

>ask if you don't understand

chemical formulas and math equations are also part of the "language"



READ THE TEXT
 >enhance your comprehension
 >write down questions & ask in class



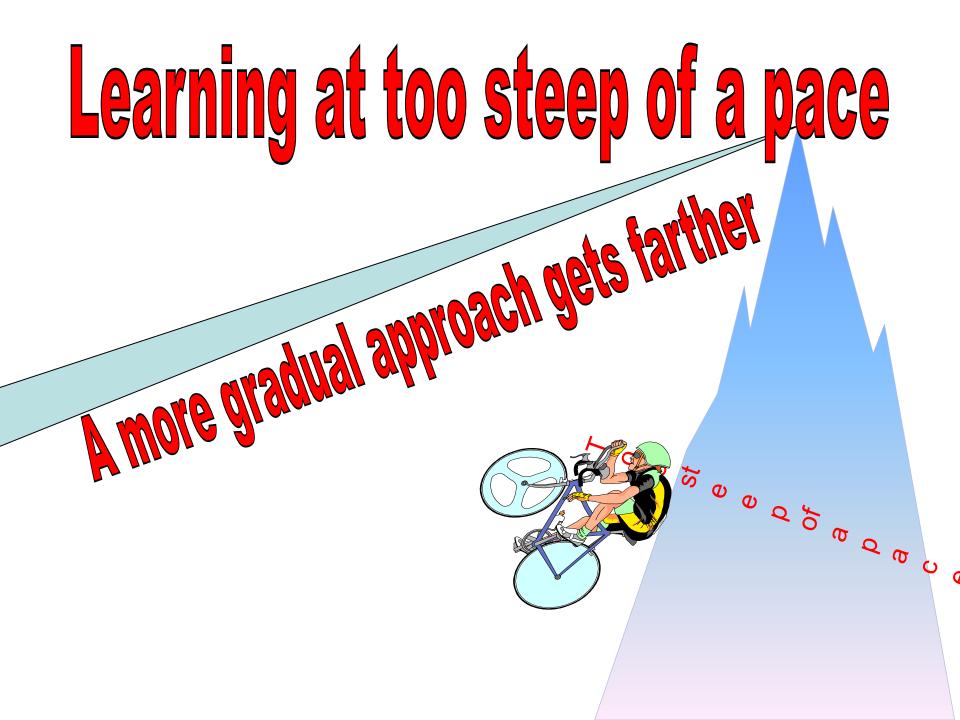
DO THE HOMEWORK
 Chemistry is not a spectator sport
 Work ALL assigned problems
 Practice additional problems



WORKING PROBLEMS
 > do not memorize problems
 > understand how to develop a solution



GET HELP EARLY
 review day is too late
 chemistry is cumulative knowledge
 build a strong foundation



Learning at too steep of a pace

 If learning is done in a step by step fashion, it is easy.

Learning at too steep of a pace

 If steps are skipped, then there is a complaint that a certain step is too difficult.

Learning at too steep of a pace

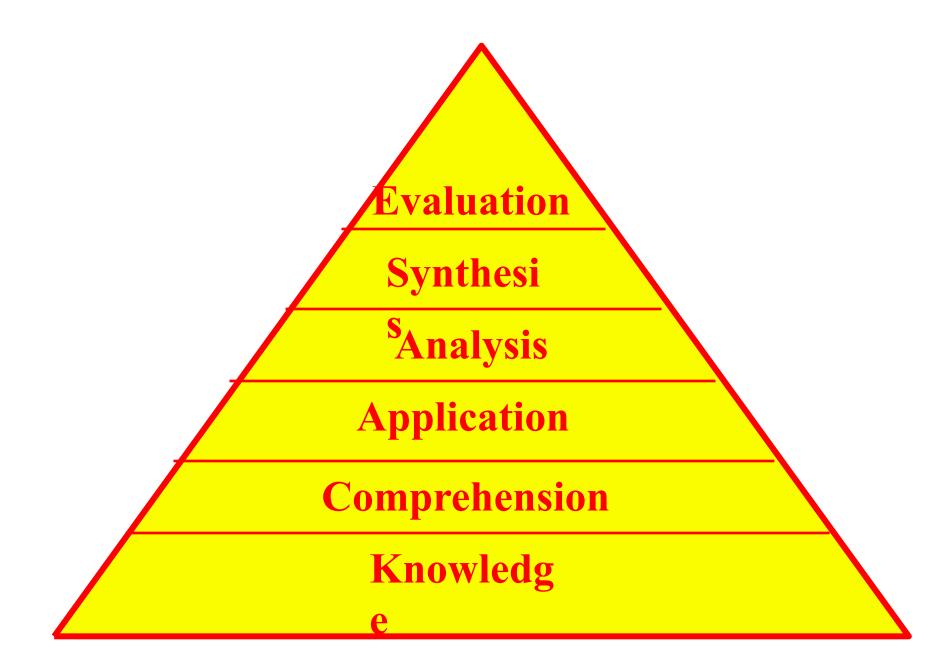
- How do you get past this barrier?
- Return to the step you were doing well and then proceed by making sure you do each step.

CHEMISTRY IS HARD!

WHY?

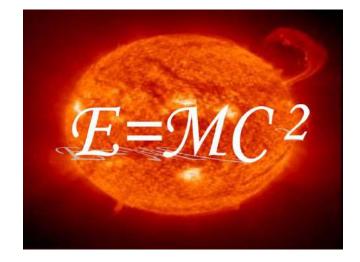
BLOOM'S TAXONOMY

- KNOWLEDGE memorizing textbook definitions
- COMPREHENSION putting knowledge in own words
- APPLICATION using the information in new situations
- ANALYSIS breaking the information into meaningful pieces
- SYNTHESIS using information to generate new knowledge
- EVALUATION making judgments about the value of ideas or information



WHAT DOES THIS HAVE TO DO WITH CHEMISTRY?





- In the past, many of your classes required "knowledge" and "understanding"
- Chemistry requires you to use all levels of Bloom's taxonomy, but mostly focuses on the higher levels
- You will learn many new processes and techniques and then be required to apply them to new situations

WORD CLUES



- Knowledge
 - list, define, tell, describe, identify, show, label, collect, examine, name, who, when, where
- Comprehension

summarize, describe, interpret, contrast, predict, associate, distinguish, estimate, differentiate, discuss, extend

WORD CLUES



- Application
 - apply, demonstrate, calculate, complete, illustrate, show, solve, examine, modify, relate, change, classify, experiment, discover
- Analysis

analyze, separate, order, explain, connect, classify, arrange, divide, compare, select, explain, infer

WORD CLUES



Synthesis

combine, integrate, modify, rearrange, substitute, plan, create, design, invent, what if?, compose, formulate, prepare, generalize, rewrite

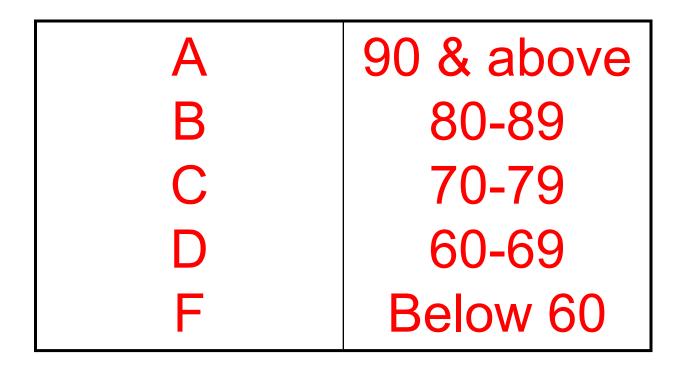
Evaluation

Sassess, decide, rank, grade, test, measure, recommend, convince, select, judge, explain, discriminate, support, conclude, compare, summarize

Required Materials

- Pencil or Pen (blue or black ink only)
- Calculator
 - No graphing/programmable calculators
 - Should have exponents for scientific notation
- 3 Ring Binder
 - Dedicated only to chemistry
 - 2 inches
 - Clear plastic sleeve
- Computer Access

Grades



Class Rules

- Be in your seat and ready to work with all required materials when the bell rings
 3 tardies = referral to principal
- Be respectful and act like an adult
- No gum, food or drink
- Adhere to the dress code and school rules found in the Student-Parent Handbook

Possible Disciplinary Actions

- Conference with student
- 1 hour after school detention
- Phone call to parents
- Conference with parents
- Disciplinary referral to the principal

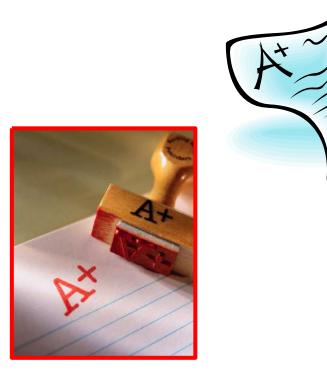
Homework

- Assigned daily
- Minimum of 30-45 minutes per night
- Complete ASAP after class



Quizzes/Exams

- All exams are announced
- Quizzes are usually "pop"
- Absences



Attendance/Assignment Policy

- Attendance
- Missed Work
- Late Work

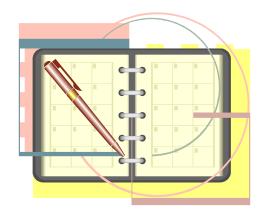






Weekly Agenda

- Distributed weekly
- Front sleeve of binder
- Access through Edline/Webpage
- Requires daily attention





- Grades
- Assignments

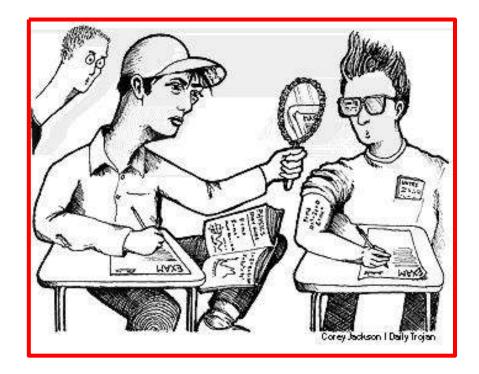


Webpage

- Weekly agenda
- Notes
- Worksheets
- Powerpoint
- Useful information

Cheating/Plagiarism

- Don't do it
- Zero and a phone call
- Areas of concern



Learning Support

- Sign up for tests in resource center before test day
- Report to class for attendance on test day

Teacher Availability

Resource center

– Mrs. Marks mods 11/12

- Imarks@uscsd.k12.pa.us
- Plan room 131

Good Luck!!

- Work hard
- Never stop trying
- Be successful

