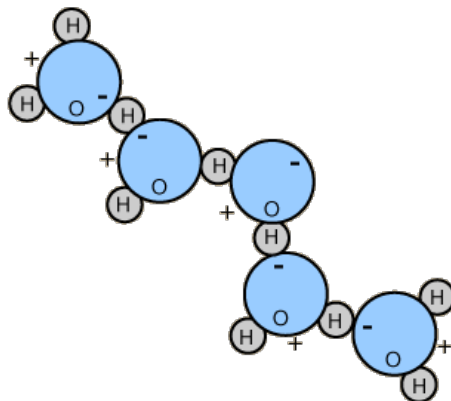


# Welcome to Chemistry 122



What we need to get done today...

- Introductions

- Expectations



- Materials



- Course Layout



- Evaluation



- Student Info Sheets

# Student Handbook

## Materials I Would Like You to Have

START 

- Notebook
- **Periodic Table**
- Calculator (not a cell phone)
- Hard covered notebook

# Expectations

START

- Seating arrangement
- Homework (Homework Page)
- Behaviour in class

1. Cell phones, etc.
2. Must **be on time** and prepared
3. Food / drink
4. **Be respectful**

- Behaviour in lab
- Lockdown / Fire Drill
- Absences (tests)
- Extra help

# Evaluation

START

- Labs/Assignments
  - Quizzes
  - Tests
  - Midterm 10%
  - Exam 30%
- } 60%

# Outline

START  


Unit 1: Thermochemistry	5 weeks (23 hrs)
Unit 2: From Solutions to Kinetics to Equilibrium	3 weeks (15 hrs)
Unit 3: Acids and Bases	5 weeks (23 hrs)
Unit 4: Organic Chemistry	5 weeks (24 hrs)

see link below




## Student information sheet

Put your final mark for Chemistry 112 on the bottom of the backside of the sheet.

## Period 1

### Remind app


 invite remind app Period 1 Semester 1 - Chemistry 122.pdf




Period 5


Remind app  


## Chemistry Crossword Puzzle

 SKMBT\_50117090514050.pdf

 SKMBT\_50117090514051.pdf


## Answers

 SKMBT\_50117090514052.pdf

## Scientific Notation and Unit Prefixes Review

 Scientific Notation and Metric Worksheet.docx

 Math Review for Chemistry.docx

 Math Concepts Review for Chemistry - assignment.docx

Step 1

$$\text{mole O} = 5.00 \times 10^{27} \text{ atoms O} \times \frac{\text{mole}}{\text{atoms O}} = A$$

Step 2

moles of  $\text{Ca}(\text{NO}_3)_2$ 1 mol of  $\text{Ca}(\text{NO}_3)_2 = 6 \text{ mol O atoms}$ 

$$\text{mole of } \text{Ca}(\text{NO}_3)_2 = \frac{A \times 1 \text{ mol } \text{Ca}(\text{NO}_3)_2}{6 \text{ mol O}}$$

$$= B$$

Step 3

Mass  $\text{Ca}(\text{NO}_3)_2$ 

$$= B \text{ mol } \text{Ca}(\text{NO}_3)_2 \times \frac{164 \text{ g } \text{Ca}(\text{NO}_3)_2}{1 \text{ mol } \text{Ca}(\text{NO}_3)_2}$$

Table 4a – Metric Prefix				Scientific Notation	
Prefix	Symbol	Multiplier	Exponential	Normalized	E Notation
yotta	Y	1,000,000,000,000,000,000,000,000	$10^{24}$	$1.0 \times 10^{24}$	1.0E24
zetta	Z	1,000,000,000,000,000,000,000	$10^{21}$	$1.0 \times 10^{21}$	1.0E21
exa	E	1,000,000,000,000,000,000	$10^{18}$	$1.0 \times 10^{18}$	1.0E18
peta	P	1,000,000,000,000,000	$10^{15}$	$1.0 \times 10^{15}$	1.0E15
tera	T	1,000,000,000,000	$10^{12}$	$1.0 \times 10^{12}$	1.0E12
giga	G	1,000,000,000	$10^9$	$1.0 \times 10^9$	1.0E9
mega	M	1,000,000	$10^6$	$1.0 \times 10^6$	1.0E6
kilo	k	1,000	$10^3$	$1.0 \times 10^3$	1.0E3
hecto	h	100	$10^2$	$1.0 \times 10^2$	1.0E2
deca	da	10	$10^1$	$1.0 \times 10^1$	1.0E1
		1	$10^0$	$1.0 \times 10^0$	1.0E0
deci	d	0.1	$10^{-1}$	$1.0 \times 10^{-1}$	1.0E-1
centi	c	0.01	$10^{-2}$	$1.0 \times 10^{-2}$	1.0E-2
milli	m	0.001	$10^{-3}$	$1.0 \times 10^{-3}$	1.0E-3
micro	$\mu$	0.000001	$10^{-6}$	$1.0 \times 10^{-6}$	1.0E-6
nano	n	0.000000001	$10^{-9}$	$1.0 \times 10^{-9}$	1.0E-9
pico	p	0.000000000001	$10^{-12}$	$1.0 \times 10^{-12}$	1.0E-12
femto	f	0.000000000000001	$10^{-15}$	$1.0 \times 10^{-15}$	1.0E-15
atto	a	0.000000000000000001	$10^{-18}$	$1.0 \times 10^{-18}$	1.0E-18
zepto	z	0.000000000000000000001	$10^{-21}$	$1.0 \times 10^{-21}$	1.0E-21
yocto	y	0.000000000000000000000001	$10^{-24}$	$1.0 \times 10^{-24}$	1.0E-24

## Homework

1-Finish Math Concepts Review

2. Scientific Notation & Unit

Prefixes Questions 11-35 & 44

## Attachments

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Chemistry 122 Outline 2017 SC.docx

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