

April 2, 2012

1. Check over table 2 + 3

2. Binary Molecular Compounds

3. Polyatomic Ions

April 3

1. What is a polyatomic ion?

2. Discuss the table 5 answers

3. Complete the naming package

4. Practice Quiz - End of naming package

April 4

1. Wrigley's field trip

-hand in a 1 page summary of what you did and
what you learned

9. People missing trip

- climate change journal

articles + summaries

April 5

1. Discuss Wrigley's trip + assessment

2. Take up final naming summary page

3. Begin Chemical Reactions

- Clues of a chemical reaction

- types of reaction

April 10

1. Review Naming Compounds

2. Demo simple chemical reactions

- Match $\rightarrow \text{CO}_2 + \text{H}_2\text{O}!!$

- Lycopodium - surface area

3. Chemical Reaction Note

- format
- Intro to balancing equations
- format of writing chemical reactions
- law of conservation of mass

April 11

1. Naming Quiz

2. Types of chemical reactions

3. More Balancing

April 12

1. Balancing Reactions

2. Types of reactions

syn vs decomp

single vs double

combustion

April 13

What is a chemical reaction

-Chemical vs Physical Change

Examples of chemical reactions

writing chemical reactions

More Balancing + Types of reactions

April 16

Writing Chemical Reactions

-using examples of chemical reactions

Part 1 of Chemistry Review

"Chapter 5"

April 17

1. Note on Acids + Bases

2. Indicators + pH scale

Textbook 160-163

Worksheet

April 18 Unit Test Next Week!

Video on Acids + Bases - The Proton in Chemistry

Acid + Base Reactions

Worksheets - Acid/Base Intro + Reactions

Neutralization - applications

April 19

Acid + Base lab Activities

Review for unit test

April 23

1. Go over topics on test - Use textbook to guide them

April 24

Study / Work Period

April 25

Unit Test Chemistry !!

April 26

1. Introduce New Unit - Biology

Define Biology

Characteristics of life - 6 things

- reproduction, metabolism, homeostasis, growth + development
- Cell theory - cells

2. Poster Information Gathering

April 27

Pg 14-15

1. Pick a poster
2. Create a 5 question + 5 answer
3. Label a diagram of an animal cell and plant cell !
4. Identify the role of an organelle !
5. Describe the function of the cell's organelles

April 30

1. Handout Package of questions about Posters
2. Answer in groups all 45 questions
3. Complete Cell Parts + Functions Worksheet

May 1.

1. Cell parts Quiz - Review parts before:
2. Diffusion

Pg 11

- Examples of diffusion

Cell membrane
Nucleus
Nucleolus
Chromatin

May 2

1. Osmosis + Plant Cells Same
but add
2. Fill in the blank worksheet
 - looking @ cells / pond water
3. Poster Question Concerns

Cytoplasm
Mitochondria
Rough + Smooth ER
Golgi Body
Vesicle/Vacuole/Lysosome
Ribosome

May 3

1. Poster concerns??
2. Learning how to use a microscope
3. Parts of a microscope
4. Looking at prepared slides
5. Learning how to make a slide - pond water

!! Pg 380

May 4

Why a cell must be small - So how do things get bigger

Cell Division
Mitosis

} Pg 22

Textbook definitions, animations, movie

May 7

pg 28-29

1. Making notes on mitosis
2. Drawing pictures, animation on computer
3. Explaining how scientists have come up with the cell cycle

May 8

pg 30

1. Cancer and cell specialization
2. Cancer is unspecialized
Benign versus malignant

Review sheet on mitosis

May 9.

pg 41

Quiz on cell division

Microviewer slides and worksheet

May 10

pg 44

- Cells into tissues into organ
Cell specialization and differentiation

Four types of tissues

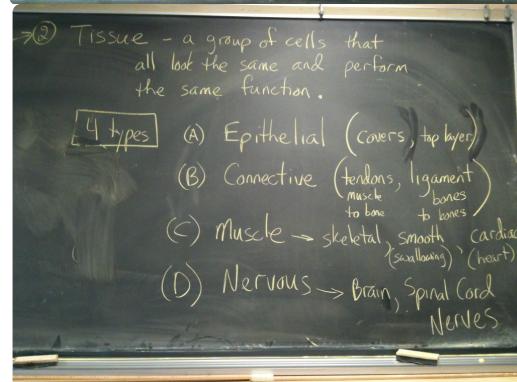
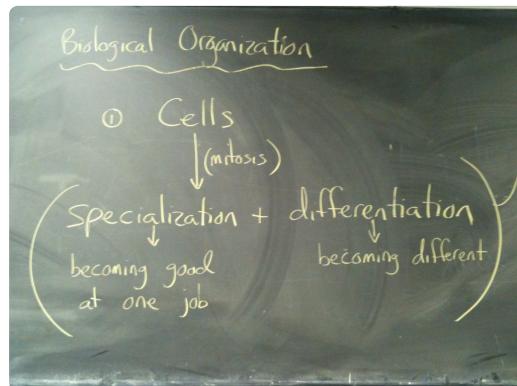
Epithelial covering, top layer

Connective ligaments, tendons

Muscle skeletal, smooth, cardiac

Nervous brain spinal cord nerves

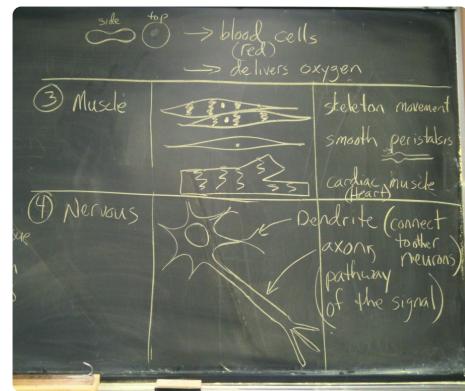
Video - ultimate guide to human body



May 11.

1. Unique cell shapes and functions
2. General discussion of body organs

Cell Specialization + Differentiation		
Tissue	Cell shapes	Duties of the Cell
① Epithelial	squamous cuboidal columnar	protection (shingles of a roof) secrete hormones, mucus absorb nutrients "taste"
② Connective	thin fiber	connect other tissue Bone cell - deposit calcium repair bones



May 14.

1. Specific organs, structure and function
- focusing on respiratory system

2. Lungs - video breath of life

Diagram of lungs
Parts, function

Pg 58

May 15.

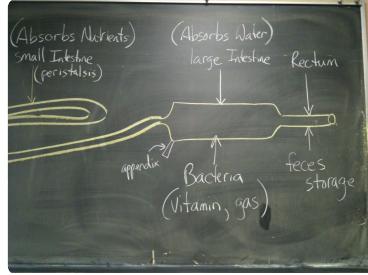
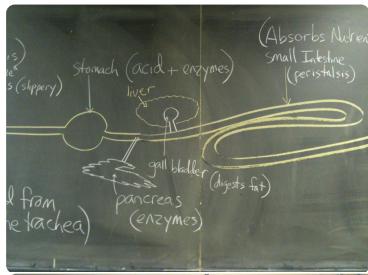
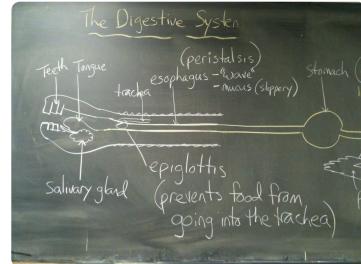
1. The circulatory system

Focus on the heart, arteries, veins

2. Connect with the respiratory system, types of tissues

3. Heart - video pump

Pg 60



May 16

1. The digestive system

Labelling diagram - structure and function, types of tissues

2. Digestive organs - video food

3. Connect with circulatory system

Pg 62

May 17

P 4/7

Other body systems

Other major organs and their function

Connections between organ systems

May 18

1. Video osmosis jones

No worry !!

May 22

Medical imaging technology

← Yes worry

May 23

Practice quiz on medical technologies

Dissection of earth worm

PG 78

May 24

← part + function

Announcement of unit test for next wednesday may 30

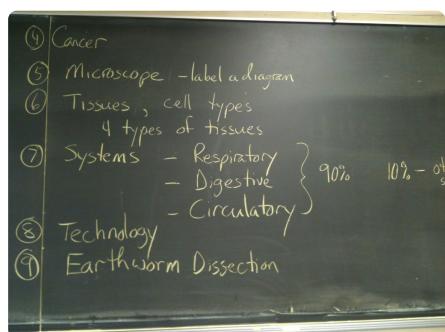
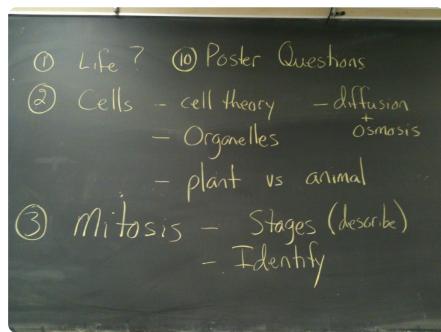
discuss topics on unit test

Working on getting organized for 45 minutes

May 25

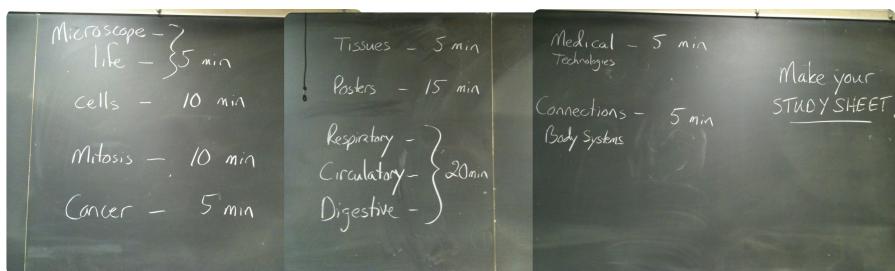
1. Played Bingo with review terms

2. Chocolate as prizes



May 28

1. Practice test?



May 29

1. Working on study sheet

May 30

1. Unit three test - biology of animal systems

May 31

1. Beginning unit 4 - Weather and Climate

Difference between the terms

Observations about the weather

Temp in the shade

Clouds types and amount

Humidity high and low

Wind speed and direction

Pressure high and low

2. NCS Telling the Weather video

June 1

1. Where does weather occur?

Layers of the atmosphere - trop, stratos, meso, thermo / ionosphere, exo

Makeup of the atmosphere - gases, N, O, H₂O, other, CO₂

2. Beck on global warming

3. Hot planet cold comfort

June 4

1. Difference between climate change and global warming

2. Describing the important points from fig 3.2 and fig 3.3 (pg 197-197)

3. Why are we concerned about the climate changing now? Pg 198

4. Problems caused by warming temperatures page 198, 204, 206

5. List 3 benefits of climate change pg 208-209. (still need to do)

June 5

1. Review weather, atmosphere, negative effects of climate change

2. Bill nye climate change

3. General discussion of things that concern them

June 6

1. Factors that affect weather

Sun - solar intensity, orbit around the sun

- tilt of the Earth

Shape of the earth - curved surface, solar energy spread out

- uneven heating, global winds

- currents of air and water

June 7

1. The greenhouse effect

June 8

June 11

June 12

Test preparation

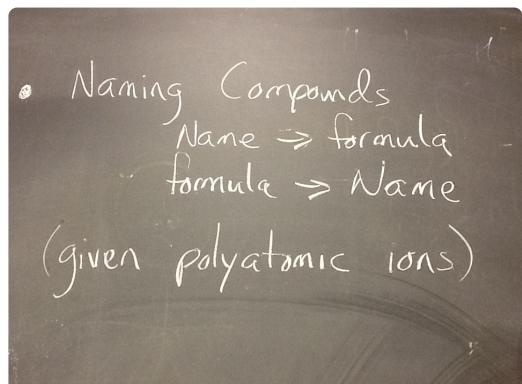
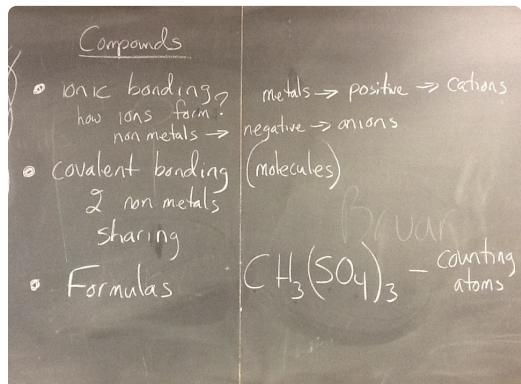
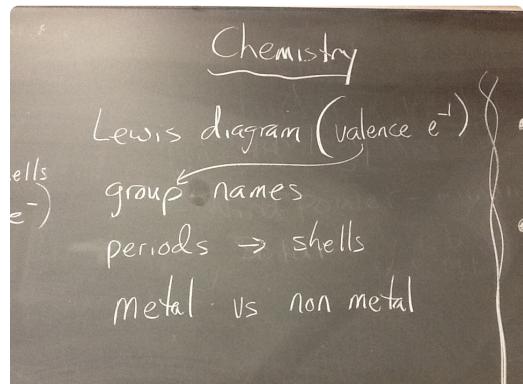
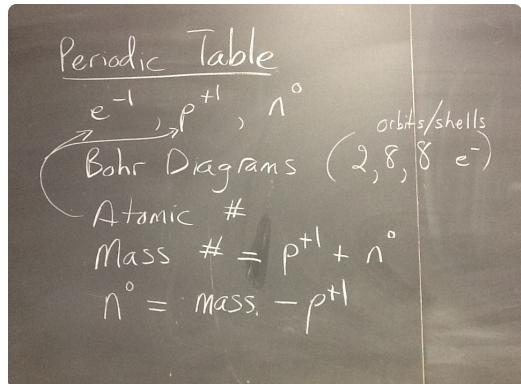
June 13

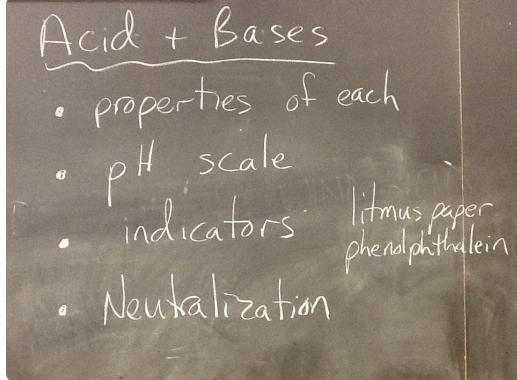
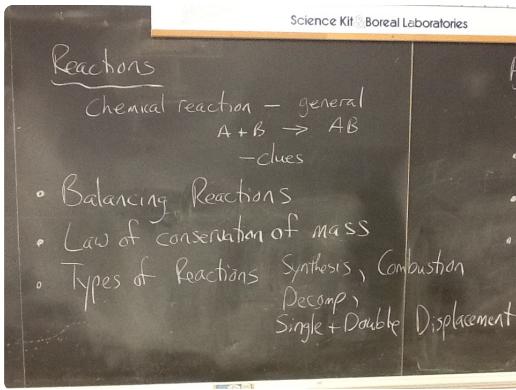
climate and weather unit test

June 14 - 19

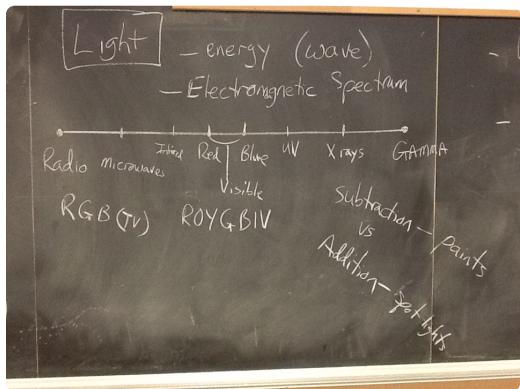
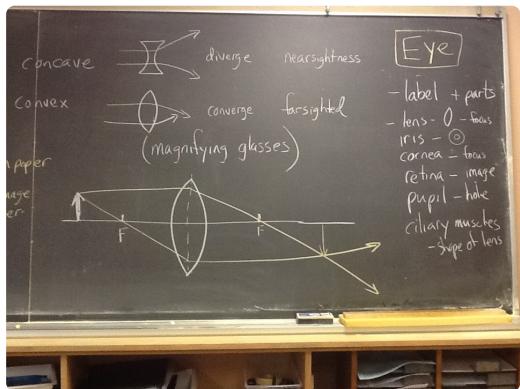
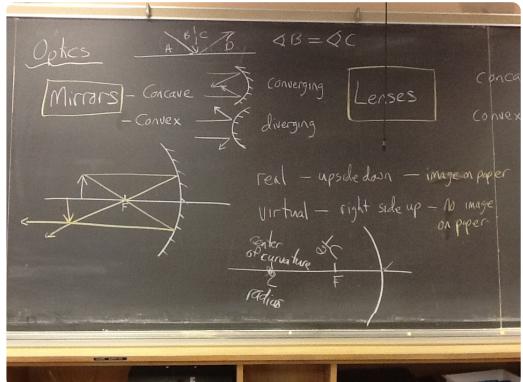
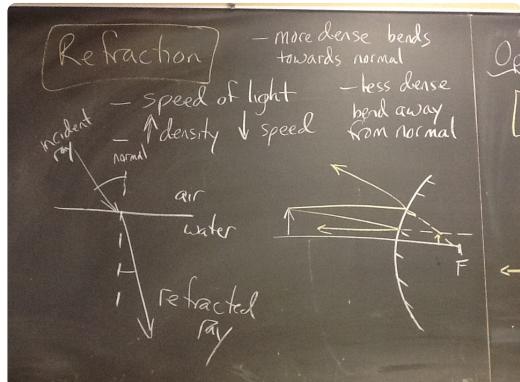
Exam review days

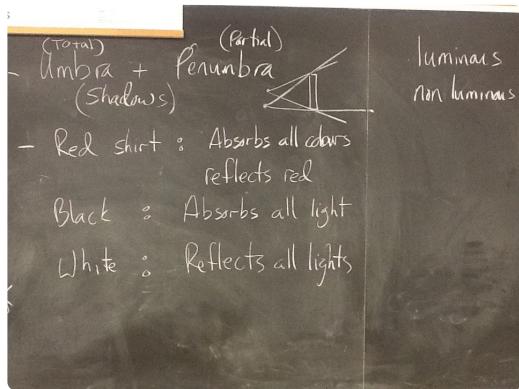
chemistry review topics





Optics unit review





Biology unit review

Biology

① Life

- reproduce
- metabolism - eating, using Energy
- homeostasis - balance
- respond - stimulus-pain light
- grow
- Cells!

② Cells

- * - organell
- differ
- plan

- Diff

Osm

② Cells ③ Mitochondria

- * - organelles (factory parts)
- difference
 - plant vs Animal
- Metabolism
 - using Energy
 - ATP
 - Light
- Cell theory
- Diffusion - nutrients
- Osmosis - water
- Cytokinesis
- Anaphase
- Telophase
- Prophase
- Metaphase
- Stages
- Cell

parts) ③ Mitosis

- cell division
- stages
- Interphase
 - Prophase
 - Metaphase
 - Anaphase
 - Telophase
- Cytokinesis

④ Microscope

- parts
- objective vs ocular lens
- condenser vs diaphragm

⑤

chromosomes

1 cell

↓

2 identical cells

Cancer ??

- benign?

- malignant?

Chromatids

⑥ Chromosomes

- causes mutations in DNA

(5) Tissues

- 4 types
 - connective - bone, blood, ligaments, tendons
 - epithelial - skin
 - nervous - nerves
 - Muscular - skeletal
 - cardiac
 - smooth

(6) Organs + Systems

- Respiratory
- Circulatory
- digestive

(7) Technology

- X-ray, Ultrasound, MRI
- PET, CT scan, Endoscopy