## Feb 5

Course outline

Edmodo

How some innovation has impacted science

## Feb 6

What is science?

Group discussion

Future influenced by social media and sharing

Intro to science worksheet.

Homework - science fair website

Read over what is science website

## Feb 7

Designing an experiment

Science fair beginnings timeline.

## Feb 8

Snow day

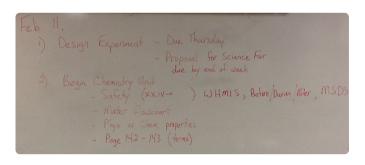
#### Feb 11

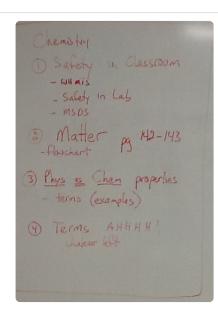
Discussing science fair ideas

Cause and effect questions

Intro to chemistry

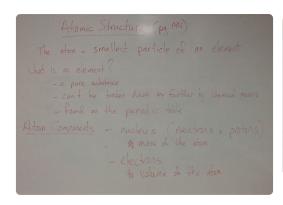
- Safety page xxiv
- Matter flow chart
- Physical vs chemical properties

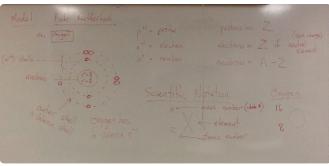




# Feb 12

#### Atomic structure





#### Homework

calculating p,e,n

Memorizing element names and symbols

### Feb 13

Quiz element names, symbols, p,e,n calculations

Periodic table parts

Section 4.1 questions

#### Feb 14

Collecting design own experiment / science fair proposal

Solutions to section 4.1 review

Forming compounds - increase stability, fight for electrons

Bohr rutherford diagram to Lewis symbol to octet rule to transfer or share to ions and an ionic bond or to a covalent bond

lonic bonding, metal nonmetal, transfer, ions

#### Feb 15

**Properties** 

Explaining other ionic compounds (Na2O, MgCl2, Al2O3)

Explaining molecular compounds

**Properties** 

Modelling the bonding - H2O, O2

worksheet on chemical bonding

Feb 19	
Concerns with chemical bonding?	
Naming chemical compounds	
Handout naming package	
Feb 20	
Ionic compound name and formula example	
Molecular compound name and formula example	
Go over multivalent name and formula	
Polyatomics example	
Feb 21	
Element quiz	
Reviewed naming	
Described a chemical equation	
Law of conservation of mass	
Started to look at balancing equations	
Feb 22	
Quiz on naming table 1 to 4	
Balancing tips	
Balancing equations worksheet	
Feb 25	
Concerns over balancing reactions	
Hand back design own experiment	
Make a mess when balancing	
Algebraic method of balancing	
Feb 26	
Types of chemical reactions	
Worksheet on types of reaction	
/1	
Feb 27	
Review patterns for identifying types of reactions	
More time for finishing worksheet on word to balanced equations	

Take up worksheet on types of reactions and quiz them using flashcardlet Large note on properties of acids and bases		
March I		
Quiz on naming chemical co	ompounds	
Making note on pH scale, ind The neutralization reaction	dicators, identifying and naming acids and bases	
March 4		
Applications of acid and base	es	
March 5		
Lab on pH		
March 6		
Review topics		
March 7		
Unit test		
March 8		
Begin light / assign electroma	agnetic spectrum groups	
March 18		
What is light?		
Properties of light		
Modelling light as a wave		
March 19		
Light and colour		
Additive and subtractive col	our theory	
Sources of light terms		
March 20		
Handback unit test		
Handout new worksheet on	terms of section 10.3	
Drawing shadows		

March 21 EM presentations Finish work for the week  March 22 Field trip to waterloo engineering  March 25 Ray diagrams and shadows Mirrors and ray diagrams  March 26 Literacy test activity Terms of 10.3 Luminous Transparent Shadows Making shadows - ray diagrams  March 27
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Luminous Transparent Shadows Making shadows - ray diagrams
Transparent Shadows Making shadows - ray diagrams
Shadows Making shadows - ray diagrams
Making shadows - ray diagrams
March 27
March 27
Section 11.1
Law of reflection
Labelled diagram
Forming images and SALT
In a plane mirror
Mar 28
Image formation In a concave mirror
In a convex mirror
Worksheet on image formation
Intro to magnification equation
Textbook practice and section questions
Textbook practice and section questions
Apr 2
Magnification - solutions
Review ray diagram - parts
Mirror equation - relationship
Worksheet

Apr 3
More calculations
Need all field trip forms for wrigleys
Begin note on refraction
April 4
Field trip to wrigleys
April 5
Need all field trip forms for university of Guelph
Refraction math
Demo, video, gizmos
Apr 0
Apr 8
Apr 9
Total internal refraction
Apr I0
Refraction lab
Apr II
School cancelled
Apr 12
Collect wrigley's field trip report
Types of lenses Ray diagrams for lenses
Worksheet on drawing ray diagrams
VVOI RSHEEL OH di awing ray diagrams
Apr 15
Negative and positive locations for lenses
Math of lenses
Apr 16
The eye

Apr 17	
Applications of lenses	
Apr 18	
Finish up optics review time	
This is appeared to the willing	
Apr 22	
Unit test review time	
April 23	
Optics unit test	
April 24	
Begin biology	
What is life	
April 25	
Characteristics. Of life	
Cell theory	
Prokaryotes vs eukaryotes	
Parts and function of cells	
April 26	
Know everything from chapter I	
Microscope parts and function	
Practice quiz on cell functions	
Types of microscopes	
Contrast, resolution, field of view	
April 29	
(Video - bbc history of science what is life)	
Slides, cell division,	

May 3
Cell specialization differentiation
Tissues
May 6
Terms of chapter I matching quiz
Microscope activity
May 7
Tissues
Unit return optics
Organs: label and understand function of major animal and plant organs
May 8
The breath of life
Organs
Skin
Lungs
Heart
Digestive organs
Leaf
Flower
Stem
Roots
Organ systems intro sheet
May 9
Present their findings about organ function
The human pump
· ·
May 10
Finish organs and systems
Work period due to wonderland trip
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May 13
The digestive system The food machine video
The food machine video
May 14
Plant organs
Homeostasis worksheet