

8th Grade ADVANCED Syllabus 2012-

Keep this in your Science Notebook/Folder!

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HWK = Homework EC = Extra Credit TH=Take Home Test

CA State Standards : Structure of Matter:

Each of the more than 100 elements of matter has distinct properties and a distinct atomic structure.

All forms of matter are composed of one or more of the elements. As a basis for understanding this concept:

1. Students know the structure of the atom and know it is composed of protons, neutrons, and electrons.
2. Students know that compounds are formed by combining two or more different elements and that compounds have properties that are different from their constituent elements.
3. Students know atoms and molecules form solids by building up repeating patterns, such as the crystal structure of NaCl or long-chain polymers.
4. Students know the states of matter (solid, liquid, gas) depend on molecular motion.
5. Students know that in solids the atoms are closely locked in position and can only vibrate; in liquids the atoms and molecules are more loosely connected and can collide with and move past one another; and in gases the atoms and molecules are free to move independently, colliding frequently.
6. Students know how to use the periodic table to identify elements in simple compounds.

Date	Class	Homework
Wk 5: Oct 1-5: Chp2: Properties of Matter Holt Book: Pg 34-57		
Chp 2: Little Book Hwk: Pg 1-6 due on 2 nd Block day (Wed/Thu) of this week, Pg 13-16 Due Block day 1 (Tue/Wed) next week Pg 7-10 due block day 2 next week. These will be checked IN CLASS on due date. Extra Credit! We need ziplock baggies!		
Mon:	Lect 1: What is matter?	Hkw: Little Book: pg 1-6 Due 2 nd Block period THIS WEEK
Tues /Wed Blk1	Lect 2: Properties of Matter Lab: Measuring Matter	Finish Little Book pg 1-6 assignment for next class
Wed/Thu Blk 2	Volume Measuring Lab/check hwk	Little Book: pgs13-16 due next week, 1 st Block day
Fri	Lect 3: Density	Hwk: Little Book pgs 13-16 0/5 (SF) FINAL RESEARCH PAPER DUE
Wk 6: Oct 8-12: Chp2: Properties of Matter Holt Book: Pg 34-57		
Chp2: Little Bk: Pg 13-16 Due Block day 1 (Tue/Wed) Little Bk: Pg 7-10 due block day 2 Little Bk: Pg 11 & 12 Due Fri Completed Little Book due Fri Final Exam on Chp 2 THIS Friday Lab Notebook due Block day 1 (Mon/Tue) next week		
Mon:	Lab: You Try It Density!	Little Book: Pg 13-16 Due Block day 1
Tues/Wed Blk1	Lect 4: Density & Buoyancy Lab: Density Layers	Little Book : Pg 7-10 due block day 2 Little Book : Pg 11 & 12 Due Fri SF: Statement of Problem, Hypothesis, Purpose due by email Tues am
Wed/Thu Blk2	Virtual Density Lab	Little Book : Pg 11 & 12 Due Fri Final Exam Friday
Fri:	Final Exam Chp2 / Little Book Due	Lab/Lecture notebook due 1 st block day next week (Mon / Tue) SF: Variables & Controls due by email Fri am
Wk7: Oct 15-19: Chp3: States of Matter Holt Book: Pg 58-79		
Chp2 Lab Notebook due Block day 1 (Mon/Tue) Chp 3 Little Book Hwk: Pg 1-7 due Fri, Pg 8-12 due next Monday EXTRA CREDIT! We need Milk! (homogenized), Baggies, spoons, rock salt, sugar and ice for our Ice Cream Matters Lab!		
Mon	Lect 1: Four States of Matter Chp 2 Lab/Lect Notebook Due	Chp 3 Little Book Hwk: Pg 1-7 for Friday, Pg 8-12 for Monday
Tues/Wed Block day1	Lect 2: Changes of State	Chp 3 Little Book Hwk: Pg 1-7 for Friday, Pg 8-12 for Monday (we need Ice Cream Matter Lab supplies BY today for extra credit) SF: by Wed am: email: Procedures & Materials due
Thu: Block Day2	Lab: Slime Matters!	Chp 3 Little Book Hwk: Pg 1-7 for tomorrow
Fri-regular Fri	Lab: Ice Cream Matters! grade chp2 NB,Chp3 Little Bk pg1-7	Chp 3 Little Book Hwk: Pg 8-12 for Monday Complete lab write-ups SF:Fri am: Due: GSDSEF: ALL FORMS: Proposal/additional "hazard" forms Hand back procedures: approved projects may begin experimentation!!! If your procedures were not approved, please consider meeting with me. Otherwise, continue editing and submitting your procedures until they've been approved.

Please note: Science Fair Experimentation DUE:

11/9 (Mon) Bring in your composition book to the results from your experiment, you should be halfway done by now

12/7 (Fri) Results due (include all 4 parts)

8th Grade Syllabus 2012 Wks: 9-10

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Wk8: Oct 22-26 Chp 4: Elements Compounds & Mixtures Holt Bk: 80-103

Chp 3 Little Book Hwk: Pg 8-12 due Mon Chp 4 Little Book Pgs 1-4 Due Blk2 this week, Pgs 5-8 Due next Mon

Mon	Lect1:Elements & Compounds Chp3 Pg 8-12 due	Chp 4 Little Book Pgs 1-4 Due Blk2 (Wed/Thur)
Tues/Wed Blk1	Lect 2 Mixtures Lab: Nuts & Bolts	
W/Thu Blk2	Lab: Messing with Mixtures Chp4 pgs 1-4 due	Chp 4 Little Book Pg 5-8 due on Mon. Chp 3&4 Lab/Lect NB
Fri	Lect 3: Heterogeneous/Homogeneous mixtures	Due Blk1 (Tue/Wed) Chp3/4 Final Exam Blk 1 next week

Wk 9: Oct 29-Nov 2 Chp 2/3/4 Unit Final Exam Blk Day 1 / Chp 12: Atoms

BIG WEEK!!! Final exam Chp 2/3/4: All 3 Little Books will be used.

Mon:	Review Jeopardy	Little Bk Chp 4 Pgs 5-8 Due today! Final Lect/Lab NB due Blk1 day.
Tues/Wed Blk1	Chp 2-3-4 UNIT FINAL EXAM! CHP 3-4 / NB DUE	HWK: Little Bk Chp 12 Pgs 1-6 Due Fri
Wed/Thu Blk2	Chp 12: Atoms Lect 1/2	
Fri:	Chp 12: Atom Lect 3	Little Bk Chp 12 Pgs 1-6 Due HWK: Little Bk pgs:7-12 Due Mon

Wk 10: Nov 5-9th: Chp 12: Atoms Holt: Pgs 302-322

Hwk: Little Bk Chp12 Pgs 7-12 Due Mon

Mon:	Atom Lect 4	Little Bk Chp12 Pgs 7-12 Due / Chp 13: pg 2-5 due Blk2
Tues/Wed Blk1	Periodic Table Lect 1	Little Bk Chp 13: pg 2-5 due Blk2
Wed/Thu Blk2	Periodic Table Lect 2	
Fri:	Periodic Table Lect 2 Finish	Little Bk Chp 13: 6-11 Due today SF: Bring in your composition book to the results from your experiment, you should be halfway done by now

CA State Standards : Periodic Table

The organization of the periodic table is based on the properties of the elements and reflects the structure of atoms.

1. Students know: how to identify regions corresponding to metals, nonmetals, and inert gases.
2. Students know: Each element has a specific number of protons in the nucleus (the atomic number) and each isotope of the element has a different but specific number of neutrons in the nucleus.
3. Students know: Substances can be classified by their properties, including their melting temperature, density, hardness, and thermal and electrical conductivity

Wk 11: Nov 12-16: Chp 13 : Periodic Table Holt: Pgs 323-

Hwk: Little Bk Chp 13: Pg1-4 due / Little Bk Pg 5-8 due Blk day1 FINAL EXAM Blk Day 2: Chp 12 & 13

Mon:	Veterans Day observed. No School	
Tues/Wed Blk1	Chp 12 & 13 Review	Chp 13 Little Book due today
Wed/Thu Blk2	Chp 12 & 13 Final Exam	Chp 12 & 13 Lab/Lect NB Due Tomorrow!!!
Fri:	Grade Notebooks	Chp 12 & 13 Lab/Lect NB Due

No "Science" Homework over Thanksgiving !!! Keep working on those SF projects!

Have a wonderful family time!

EXTRA CREDIT OFFERED!!! 10 extra credit points will be rewarded to those students who **CLEAN UP** the entire kitchen/dining room **ALL BY YOURSELVES!!**(Cooking does NOT count!) **SO MOM/DAD/GRANDMA/Auntie ect. can rest!**
Have them send me an email telling me about the wonderful job you did **BY SUNDAY NIGHT Nov 25th OR** bring in a note on Monday Nov 26th. No late notes accepted! ☺

SCIENCE FAIR REMINDER DATES!

12/7 (Fri) Results due (include all 4 parts)

12/13 (Thursday): Conclusions & Recommendations due

*** 12/20 (Thursday): FINAL NOTEBOOK DUE: include all final draft edited parts, plus Table of Contents, Acknowledgements, and Appendix (messy original data- which should be in your composition book)**

FINAL NOTEBOOK DUE DATE IS A CHANGE! IT WILL BE DUE BEFORE WINTER BREAK!