

8th Grade Syllabus 2016 Keep this in your Science Folder!

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HWK = Homework EC = Extra Credit LB= Little Book (chapter homework) NB= Notebook (Labs/Lectures)

CA State Standards we are covering : 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 4: Sept 19-23: Chp2: Properties of Matter Holt Book: Pg 34-57		
Homework: Chp 2 Little Book. Due Monday Sept 26th		
Donations Needed & Appreciated for our Ice Cream lab NEXT week!		
WHOLE Milk! (homogenized), Zip Lock Baggies (gallon & quart size), spoons, rock salt, sugar and ice donations will be used for our Ice Cream Matters Lab next Fri Sept 30. Milk & Ice can be brought in on Friday, everything else can come in earlier this week.		
Mon:	Chp2:Lect1: What is & Properties of Matter	Hwk: Chapter 2 reading & Little Bk due Monday
Tues /Wed Blk1	Chp2 Lect 2: Density & Buoyancy: Blks Lab	Hwk: Chapter 2 reading & Little Bk due Monday
Wed/Thu Blk 2	Density Labs	
Fri	Lab: Gummy Bears Measuring Matter Lab	
Wk 5: Sept 26-30 Density & Chp3: States of Matter Holt Book: Pg 58-79		
Donations Needed & Appreciated for our Ice Cream lab this week!		
WHOLE Milk! (homogenized), Zip Lock Baggies (gallon & quart size), spoons, rock salt, sugar and ice donations will be used for our Ice Cream Matters Lab this Fri Sept 30. Milk & Ice can be brought in on Friday, everything else can come in earlier this week.		
Mon:	Finish Gummy Bear Lab/Start Lect1	Hwk: Collect LB Chp2 / Lab write-ups Due with section notebook
Tues/Wed Blk1	Chp3: Lect 1: Four States of Matter	Chp 3 Little Book : Due Monday
Wed/Thu Blk2	Chp3: Lect 2:Changes of State/Work time	
Fri:	Lab: Ice Cream Matters!	MILK & ICE TODAY Donations appreciated for our ice cream lab Chp3 Little Book due Monday! Homework: Complete lab write-ups:
Wk 6: Oct 3-7: Chp3: States of Matter		
Chp 4: Elements Compounds & Mixtures Holt Bk: 80-103		
Mon	Lab: Slime Matters!	Hwk: Collect LB Chp3 / Chp 4 Little Book : Due on Mon
Tue/Wed Blk day1	Chp 4:Lect Elements/ Compounds/Mixtures	
Wed/Thu: Blk Day2	Lab:Nuts & Bolts / Physical/Chem Change	
Fri	Lab: Messing with Mixtures	Lab/Lecture Notebook Coversheet handed out. Due Next Block Day 1 (Tue/Wed)
Wk 7: Oct 10-12 Chapter 2-3-4 Unit Final Exam:		
Chp 4 Little Book due Friday Lab Lecture Notebook Due Next Monday Oct 26th		
Mon	Review Jeopardy	Collect LB Chp 4 Chp 2-3-4 Lab/Lecture NB Due Test Day. This will be graded
Tues/Wed Blk1	Chp 2-3-4 UNIT FINAL EXAM!	You will be able to use all 3 Little Books: Chp 2-3-4

8th Grade Syllabus 2016 Wks: Keep in Your Science Notebook!

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DATE	CLASS	HOMEWORK
Wk 8: Oct 12-14/17-21 Chp12:Atoms Chp13 Periodic Table Holt:Pgs 302-322		

W/Thu Blk2	Chp 12: Atoms Lect 1	Chp 12/13 Little Book Little Bk Due Monday
Fri	Finish Lect 1: Little Book Work Time	
Mon:	Chp13: Periodic Table Lect 1	
Tue/WedBlk1	Finish PT Lecture / Little Book Work Time	
Wed/ThuBlk2	Periodic Table Lab/Work Day	
Fri:	Chp14: Chem Bonding Lec 1	

CA State Standards we are covering: 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 9: Oct 24-28 Chp14: Chemical Bonding / Chp15: Chemical Reactions

Mon:	Chp14: Chem Bonding Lec 2	Chp 12/13 Little Book Due/ Hand out Chp 14/15 LB- Due Mon
Tues/WedBlk1	Chp 15: Chem Reactions Lect 1	
Wed/ThuBlk2	Chp 15: Chem Reactions Lect 2/ Flame Lab	
Fri:	Work Day	

CA State Standards we are covering: Reactions

Chemical reactions are processes in which atoms are rearranged into different combinations of molecules.

1. Students know: Reactant atoms and molecules interact to form products with different chemical properties.
2. Students know: The idea of atoms explains the conservation of matter: In chemical reactions the number of atoms stays the same no matter how they are arranged, so their total mass stays the same.
3. Students know: Chemical reactions usually liberate heat or absorb heat.
4. Students know: Physical processes include freezing and boiling, in which a material changes form with no chemical reaction.
5. Students know: Know how to determine whether a solution is acidic, basic, or neutral.

Wk 10: Oct 31-Nov 4: Chp15: Chemical Reactions/Chp 16: Acids & Bases

Lab /Lecture Notebook Next Week Block Day 2 / Final Exam Next Week Block Day 1

Mon:	Cabbages in Chemistry Day 1	Chp 14/15 Little Book Due: You may use it on the Final Exam
Tues/Wed Blk1	Cabbages in Chemistry Day2	
Wed/Thu Blk2	Lecture: Chp 16	
Fri	Work Day	Lab Lecture Notebook for Chp 12-16 will be due on test day

Wk 11: Nov 7-10: Final Unit Exam: Chp 12,13,14,15,16 Block Day 1

Lab Lecture Notebook for Chp 12-16 will be due on test day (Blk day 1)

Mon	Jeopardy Chp 12,13,14,15,16	Chp 15/16 Little Books Due: You may use them on the Final Exam
Tues/Wed Blk1	Final Unit Exam: Chp 12,13,14,15,16	You will use ALL Your Little Books: Chp12-16
Wed/Thu Blk2	GPS Training	
Fri: Nov 11	No School On Fri Nov 11th: Veterans Day	

Wk 12: Nov 14-18 GPS Technolgy week We Need Parent Helpers- 6/class!

Nov 21-25: There will be NO HOMEWORK over Thanksgiving!!

Don't forget your special extra credit points for helping clean up the Thanksgiving Day meal mess! YOU have to clear the tables & wash the dishes!! Be sure I have an email telling me what a great helper you were by SUN Nov 29th or a handwritten note on Mon Nov 30th.

There will be NO EXTENSIONS!