

# 8th Grade Syllabus 2014 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
<b>Wk 4: Sept 22-26: Chp2: Properties of Matter Holt Book: Pg 34-57</b>		
Chp 2: Little Book Hwk: Pg 1-6 due on 2 <sup>nd</sup> 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. <b>Extra Credit! We need ziplock baggies!</b>		
Mon:	Lect 1: What is matter?	Hwk: Little Book: pg 1-6 Due 2 <sup>nd</sup> Block period THIS WEEK
Tues /Wed Blk1	Lect 2: Properties of Matter Lab:Gummy Bears 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 <sup>st</sup> Block day
Fri	Lect 3: Density	Hwk: Little Book pgs 13-16
<b>Wk 5: Sept 29-Oct 3: Chp2: Properties of Matter Holt Book: Pg 34-57</b>		
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 <b>Completed Little Book due Fri Final Exam on Chp 2 THIS Friday Lab Notebook due Block day 1 (Mon/Tue) next week</b>		
Mon:	Lab: You Try It Density!	Little Book: Pg 13-16 Due Block day 1
Tues/Wed Blk1	Lect 4: Density & Buoyancy Lab: Density Labs	Little Book : Pg 7-10 due block day 2 Little Book : Pg 11 & 12 Due Fri
Wed/Thu Blk2	Virtual Density Lab / work time	Little Book : Pg 11 & 12 Due Fri Final Exam Friday
Fri:	<b>Final Exam Chp2 / Little Book Due</b>	Lab/Lecture notebook due Monday
<b>Wk 6: Oct 6-10: Chp3: States of Matter Holt Book: Pg 58-79</b>		
Chp2 Lab Notebook due Monday- ALL CLASSES! Chp 3 Little Book Hwk: Pg 1-7 due Fri, Pg 8-12 due next Monday <b>EXTRA CREDIT! We need WHOLE Milk! (homogenized), Zip Lock Baggies (gallon &amp; quart size), spoons, rock salt, sugar and ice for our Ice Cream Matters Lab on Friday Oct18. Milk &amp; Ice need to be brought in on Friday, everything else can come in this week.</b>		
Mon	Lect 1: Four States of Matter Chp 2 Lab/Lect Notebook Due	Chp 2 Lab/Lecture 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
Thu: Block Day2	Lab: Slime Matters! Work Time on Chp3 Little Book!	Chp 3 Little Book Hwk: Pg 1-7 for tomorrow
Fri	Lab: Ice Cream Matters!	We need MILK & ICE TODAY for our ice cream lab Chp 3 Little Book Hwk: Pg 8-12 for Monday Complete lab write-ups
<b>Wk 7: Oct 13-17: Chp 4: Elements Compounds &amp; Mixtures Holt Bk: 80-103</b>		
<b>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</b>		
Mon	Lect1 Chp 4:Elements & Compounds	Chp3Pg8-12 due Chp4 Little Bk 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 Due Blk1 (Tue/Wed) Chp3/4 Final Exam Blk 1 next week
Fri	Lect 3: Heterogeneous/Homogeneous mixtures	

**8th Grade Syllabus 2014 Wks: 8-11 Keep in Your Science Notebook!**

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**Wk 8: Oct 20-24: 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.
Tue/WedBlk1	<b>Chp 2-3-4 UNIT FINAL EXAM!</b> <b>CHP 3-4 / NB DUE</b>	<b>HWK: Little Bk Chp 12 Pgs 1-6 Due Fri</b>
Wed/ThuBlk2	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

**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 9: Oct 27-31 Chp 12: Atoms: Holt: Pgs 302-322**

**Hwk: Little Bk Chp12 Pgs 7-12 Due Mon**

Mon:	Chp12: Atom Lect 4	Little Bk Chp12 Pgs 7-12 Due / Chp 13: pg 2-5 due Blk2
Tues/WedBlk1	Chp13: Periodic Table Lect 1	Little Bk Chp 13: pg 2-5 due Blk2
Wed/ThuBlk2	Chp13: Periodic Table Lect 2	
Fri:	Chp13: Periodic Table Lect 2 Finish	Little Bk Chp 13: 6-11 Due today

**Wk 10: Nov 3-7: Chp 13 : Periodic Table/ Chp 14 : Chemical Bonding Holt: 323-572**

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

Mon:	Chp 12 & 13 Review	Entire Chp13 LittleBK due / Chp12 &13 Lab/Lect NB DueBlk1
Tues/WedBlk1	Chp 12 & 13 Quiz	
Wed/ThuBlk2	Chp14: Chem Bonding Lec 1	<b>Chp 14 LB handed out- due Blk Day 1 next week.</b>
Fri:	Chp14: Chem Bonding Lec 2	

**Wk 11: Nov 10-14: Chp 14 : Chemical Bonding Holt: 323-572**

Mon:	Chp14: Chem Bonding Lec 3	
Tues	No School: Veterans Day	
Wed/ThuBlk1	Chp 12,13, 14 review on line	Little Bk Chp 14: Entire book due today
Thu/Fri Blk2	<b>Chp 12, 13 and 14 Final Exam</b>	<b>Chp 12,13,14 NB Due today</b>