

INTEGRATED PHYSICAL SCIENCE B Course Requirements

Length: 1 Trimester: 12 exciting weeks !
Value: .5 Credits and valuable life experience !

Instructor: Zenisek, aka: mr. z
Home, Sweet Home: 8-C

Course Description: This is the second of a two-trimester course designed to give students a solid foundation in scientific thinking, methods and content. It is a hands-on course with labs and project activities. Integrated Physical Science B will focus on the formation and evolution of the Earth system and an overview of basic chemistry.

Grading: This is a class about LEARNING following the State Content Standards. Therefore, 90% of your grade will be based on demonstrating your learning of the Core Learning Targets (CLTs) on a combination of proficiency-based assessments and student projects. The other 10% of your grade will come from practice quizzes, daily work, homework assignments, your science notebook and other skills. Each CLT will be evaluated on a scale of 1-4, with a 2 representing the minimum required proficiency of the concept. *A student MUST earn a proficiency score of "2" in ALL covered CLTs in order to pass the class. The CLT scores required for each grade are as follows:

A = 4s in most CLTs

B = 3s in most CLTs

***C = 2s in most CLTs**

F = less than 2 in ANY CLT

Don't Test Well? Don't Panic! We will work together to develop your skills -

- in directing your own learning
- in understanding the science
- in how to do well on different kinds of assessments
- in developing meaningful projects

Homework: You can expect weekly homework assignments to support your continued success in class.

Textbook: Glencoe. (2006). Physical Science with Earth Science. Keep textbooks at home for HW readings.

Success: Being successful is a choice you make. No one has ever failed this class unless they chose to by not engaging themselves in the LEARNING. You can be successful by: on-time daily attendance, a positive attitude, and engaging actively in your own LEARNING.

Supplies: Required: 1" binder with paper and dividers, a single-subject spiral notebook, writing tools

Daley Procedure:

- 1) Be in your assigned seat with your notebook open at the tardy bell.
- 2) Review the Content Objective and Language Objective for the day (on whiteboard).
- 3) In your notebook: Date and do the WUP (Warm-Up) while attendance is taken.

Class Expectations (these are mine: we'll develop additional agreements as necessary):

1. Follow classroom safety guidelines at all times.
2. Practice environmental stewardship by reducing, reusing and recycling.
3. BE A SCIENTIST: Question everything!

Tardies: Don't Be! First three = problem solving time with me, thereafter: see the Student Handbook.

Late Work/ Absences: Daily on-time attendance is vital to your academic success. It is your responsibility to find out what you missed during the time you were gone. Missed notes and handouts will be available through your lab group.

Inquiry Project: Students are required to submit one complete, polished, Inquiry Lab or Engineering Design Project write-up each trimester as one of the major assessments used to demonstrate your learning. Students will work with a lab group to design and carry out an experiment or design project about a topic being covered in the course or one of personal interest. Each student will then submit a complete, polished write-up of the project following guidelines given in class. This project will be scored using the State Scoring Guide.

Extra-Credit: There is no place for extra-credit since this is a class based on demonstrating LEARNING, not collecting points. However, those interested in demonstrating application of the CLTs at a higher level may submit personal projects.

Resources to support your learning:

GOOGLE DOCS: <https://docs.google.com>

WIKI: <http://mrzatzmhs.wikispaces.com>

HELP!: Helping you succeed is what I am here for! So let me know whenever and as soon as you need any help. ePeriod, lunch and after school I'll be available to provide extra assistance to students struggling to master the content and/or who need to make up or retake key assessments. Otherwise, contact me at:

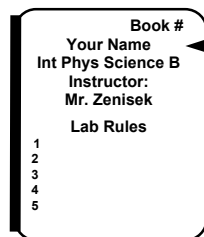
PHONE: 503.829.2355 ext5094

EMAIL: zenisekj@molallariv.k12.or.us

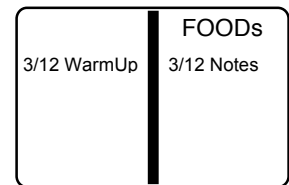
>>>> Can you find the three spelling errors on this page?

Week	CLT: Readings-Chpt.Sect	Mon	Tues	Wed	Thur	Fri	>Check In Quizzes
Wk 1:	Intro.A/B.1: C-1	3/12	3/12	3/14	3/15	>3/16	Lab: M and V
Wk 2:	B.1: C-26.3-4, C-15.1&2	3/19	3/20	3/21	3/22	>3/23	Lab: Divers
Wk 3:	Spring Break	---	---	---	---	---	Spring Break
Wk 4:	B.1: C-8.1-3	---	4/3	4/4	4/5	• 4/6 •	Lab: Densor Sensor
Wk 5:	B.2: C-7.11/3	4/9	4/10	4/11	4/12	>4/13**	Lab: Density Earth Mtrls
Wk 6:	B.3: C-12.1,2,4;	4/16**	4/17	4/18	4/19	>4/20	Lab: Temp/Density
Wk 7:	B.3: C-21.4; C-25.2	4/23	4/24	• 4/25 •	4/26 - Conf	---	• 3, 6, 9, 12 Week Exams •
Wk 8:	B..1-3 •Midterm Exam•	4/30	5/1	5/2	5/3	• 5/4 •	Lab: Half Life
Wk 9:	[Lab: Inquiry/Eng Lab]	[5/7]	[5/8]	[5/9]	[5/10]	[5/11]*	=[DUE: Inquiry/Eng Lab]
Wk 10:	B.4: C-23.1&2C-19.1-3	5/14**	5/15**	5/16**	>5/17**	=[5/18]**	Lab: Electrolysis
Wk 11:	B.5: C-22.1-2	5/21	5/22	5/23	>5/24	---	Lab: Reaction Rate
Wk 12:	B.5: C-23.1-2; C-18.2	---	5/29	5/30	• 5/31 •	6/1	Lab: Cons of Mass
Wk 13:	Mr Z OUT **	6/4	• 6/5 •	• 6/6 •	---	---	<<<< • IPS.B Finals •

Notebook (NB) Set Up



First page centered: **Your Full Name**
"Integrated Physical Science B"
"Instructor: Mr. Zenisek"



- Second page will begin the "LABS" section
- Middle of NB: fold down page to begin "FOODs&WUPs"
- Put **WUPs** on the left page and **FOODs** on right
- >>> **date** each entry >>> **start a new page** for each major topic
- **GYROs** (Journals) will begin on the last page of the notebook and proceed inward

IPS.B Topics and Key Vocabulary*				
A: Intro: Systems and Scientific Methods	B.1: Origins	B.3: Geosphere	B.3: Geologic Time	B.4: Periodic Table
*matter, energy, force	Big Bang	lithosphere	rock cycle	molecule, compound
Systems: subsystems,	electromagnetic waves	asthenosphere	igneous (intru/extru)	element, atom
..structure, function,	frequency	mesosphere	sedimentary	proton, neutron, electr
..history, interaction,	redshift, blueshift	crust, mantle, core	weathering, erosion	atomic number
Earth System:	galaxy, star system	..liquid outer core	deposition	atomic mass/ weight
..atmosphere	nebular hypothesis	..solid inner core	cementation	mass number
..hydrosphere	accretion	seismic waves (P&S)	metamorphic	family, group
..geosphere	gravity / orbit	epicenter, focus	relative dating	valence electron
			uniformitarianism	period, electron shell
variables, values, and relationships:	B.2: Solar System	MOR: mid-ocean ridge RV: rift valley	uncomformities superposition	electron energy level ion, isotope
..direct (pos. correlation)	mercury, venus, earth, mars	continental drift seafloor spreading	absolute dating radioactive decay	alkali metal, metal, metalloid, nonmetal
..inverse (neg corr.)	=inner, rocky planets	plate tectonics	half-life	halogen, noble gas
controlled experiment	outer, gas giants:	divergent boundary		
variables: independent dependent, constant	jupiter, saturn uranus, neptune	=constructive boundary	B.D: Density	B.5: Chemical Reactions
	asteroid belt	convergent boundary	D = mass/volume	phys/chem change
	asteroid/comet	=destructive boundary	water displacement	reactants, products
	meteoroid/meteorite	subduction	buoyant force	balanced equation
	extinction events	transform boundary	equilibrium	ionic, covalent bonds
		MOR: mid-ocean ridge RV: rift valley		Law of Conservation of Mass (LCM)

*This is a partial vocabulary list. Words may be added or dropped during the course.
Students are expected to spell these words correctly.