

ACCELERATED INTEGRATED SCIENCE 9

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I believe that students learn science best by doing science! Learning through INQUIRY is exciting and asking questions about the world around us is so vital.

What time does a quarter moon rise? How does mineralogical composition affect how a lava bomb forms? How do two liquids combine to create a solid? We will attempt to answer questions like these and understand our earth by completing experiments and then carefully interpreting our data.

Content:

Intro. To Science: Scientific inquiry, lab procedures, metric competence, buoyancy, etc.

Intro. To Chemistry: Structure of matter, atomic theory, periodic table, ionic and covalent bonds, factors of reaction rates, radioactivity, etc.

Physical Planet: Plate tectonics, rocks/minerals, paleomagnetism; structural geology of Oregon (plus volcanic, sedimentary, and erosional processes/features); advanced planetary/lunar systems, etc.

Intro to Physics: Motion, rate, forces, work, energy, waves, electricity, etc.

Climatology: Global wind and weather patterns, factors of climate data & ecological considerations

Course Expectations:

This very rich experience will call on you to write, read, think on your own, create projects, speak in front of the class, work in lab groups, work alone, and discuss and debate in teams. Due to the independent nature of the course and the extensive lab work involved, attendance is monitored closely and enforced. You are going to enjoy science class but we are going to do a lot of work! Don't get behind. It is important, as a freshman, to get off on the right foot and I want to help you master "lifelong learning".

Helpful Tips:

- 1.) Come to class daily...unless you are *ACTUALLY* sick.
- 2.) Stay caught up on labs and assignments. Taking vacation during school days affects achievement.
- 3.) Come prepared (Calculator, paper, notebook/binder, writin' stick) and be **ON TIME!**
- 4.) Stay organized in your 3-Ring Binder. (This, as turns out, is the most important thing at RHS!)
- 5.) Positively make deposits to the academic capitol in the room (contribute to our learning community—work well with others, share your crayons, etc.)
- 6.) Come and get help from your teacher before school or after. Really...I'll help.
- 7.) Those little things that we do right make a huge difference! Stay caught up on all of those assignments. They are the practice for the tests. Learn to effectively study for tests.
- 8.) Push yourselves—take pride in wanting to learn!

Rules:

I respect teenagers so much and love working with you guys. I do have a few requests:

- 1.) Daily, respect the room by helping to keep it clean—put trash in its place, and help put labs away.
- 2.) Keep your mouth clean! (No cursing.)
- 3.) No cell phones. OFF/AWAY does NOT mean hold phone on lap or pocket text! I want you present.
- 4.) No detracting others from learning—You don't get to steal their experience or education.
- 5.) No food. Be discrete with gum, candy, snacks. Bottled juice, soda, water (with a cap)—OK!
- 6.) You only get a couple of bathroom passes each term—use them wisely.
- 7.) No sleeping. Thank you.

Materials:

1. 3-Ring binder.
2. Writin' sticks.
3. Calculator
4. Loads of paper
5. School laptop

Grading:

Your grade will reflect your proficiency in the course and a traditional letter grade (A – F) will be assigned using the following weighted categories:

70% of grade: Summative Assessments: Tests, Quizzzee-poohs, Projects

30% of grade: Formative Assessments: Daily HW, Labs, Activities, Presentations

Homework is **NOT** optional for Honors students. Assignments are always due the next time we meet, unless I specify otherwise, and I do **NOT** accept late work. When the bell rings, I stamp homework if it is 100% completed. If an assignment is not completed, when the bell rings, it is not *done*. You will get a few late coupons (each unit) to help you manage this policy. Once you run out of late coupons, then you just miss those points. To earn credit in my class you must complete the major **MUST DO** projects (2/term).

COPYING: Copying others' work is (1) a gross violation of our trust, (2) degrades your integrity through dishonest habits, and (3) discounts your ability to learn the material, practice the concepts, and ultimately prepare you for the assessments. Don't cheat.

If you miss a lab—you have a couple weeks to make it up, and then I put it away. State law requires you to attend school.

PHONES: Cell phones are major distraction, and the school policy states that they need to be off and away. If I have to confiscate your phone, you will not get it back until the end of the day.

Covenant:

It is my hope that this class will provide unique and valuable learning experiences for you; however, you must be willing to work hard, try new and creative ideas, and be positive for the class to be meaningful. Your sincere participation is essential if you wish to make the class the unique learning situation it is designed to be. Get involved to have fun learning.

You are expected to conduct yourself with integrity. If you cheat on any assignment or quiz, you violate a trust and ruin your own chance for truly being successful; please make wise decisions. I never expect or want you to “google” an answer—internet answers will garner a zero grade; I am much more interested in what you think, not what you find on the internet. Take pride in accomplishing academically rigorous problems on your own. **I will support you however you need!**

We have read the above and acknowledge its content (please sign):

Student Signature: _____ Date: _____

Student Name **Printed:** _____

PARENT Signature: _____ Date: _____

PARENT Name **Printed:** _____