



PATTISON HIGH SCHOOL

We don't teach a class, we teach individual students in a class

Science 10

Winter Semester 2020 – Period 3 and 4

Room 119

Mr. Vandervelde

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Throughout Science 10 students will learn about the world around them, but also have opportunities to inquire about science and think critically to discover applicable rules that govern our world and universe. The course has a lecture-based component, but also allows students to explore with hands-on activities and inquiry based learning. Throughout the course we examine the relationship between society, science, and our own abilities as individuals to learn about topics that interest ourselves. Students will have opportunities to assess their own learning, as well as the learning of their peers, and they will also apply First Peoples perspectives and knowledge, other ways of knowing, and local knowledge as sources of information to enhance their learning.

Big Ideas:

1. DNA is the basis for the diversity of living things.
2. Energy change is required as atoms rearrange in chemical processes.
3. Energy is conserved, and its transformation can affect living things and the environment.
4. The formation of the universe can be explained by the big bang theory.

Course Units:

1. Introduction to Science (quiz only)
2. DNA and Genetics
3. Chemistry
4. Energy
5. Astronomy

Mark Distribution:

In-Class Assignments: 15%

Quizzes: 20%

Unit Tests: 35%

Midterm: 15%

Final Exam: 15%

Course Materials Needed:

- Binder and lined paper
- Science 10 Connections Workbook (\$15)
- Calculator

Calculator:

A basic calculator is required (only briefly) for this course. Cell phones are **not** allowed to be used as calculators. Calculators cannot be shared during tests.

Marking Philosophy:

It is required that you are organized and thorough when you complete your homework, but *more importantly for your tests*. Correct spelling is not a necessity, but your written work must be comprehensible.

Homework:

There may be in-class assignments throughout the semester, which will be completed during class time and handed in at the end of the class. Everyday homework assignments from the workbook will be checked periodically and will compose a small percentage of the in-class assignment grade for the course.

Absences:

If you miss a class, it's your responsibility to ask for homework you may have missed, and it's up to you to hand in work that was due during your absence. If you do not remember to hand in assignments on the date of your return, then the assignments will be penalized for lateness.

Notify your teacher in advance if you know that you will be absent for a test. Missing tests because of an unexcused absence will result in a score of zero.

Extra Assistance:

Extra out of class assistance is available – I am in my room before class and after class, after school, and possibly during lunch. A specific time can also be arranged if necessary.

Code of Conduct:

Students are expected to adhere to the code of conduct at all times. This includes being on time for class, being in uniform and using English while in class. Cell phones are to be used only to listen to music – if technology becomes a distraction it may be confiscated, and the student may lose the right to use technology in class if it is a recurring issue.