**Science 10**

**Teacher:** Ms. Mullins

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**What we will be learning:**

***Biology: DNA is the basis for the diversity of living things***

* DNA structure and function
* Genetics
* Mechanisms for evolution

***Chemistry: Energy change is required as atoms rearrange in a chemical process***

* Naming ionic and covalent compounds
* Types of chemical reactions
* Acids, bases and salts
* Endothermic and exothermic reactions

***Energy: Energy is conserved, and its transformation can affect living things and the environment***

* The Law of conservation of energy
* Kinetic and potential energy
* Nuclear energy

***Astronomy: The formation of the universe can be explained by the big bang theory***

* Big bang theory
* Changes in the universe
* Data collection and analysis to support theories

**Policies:**

*Missed classes:*

Regular attendance is expected from all students. If a student does miss a class it is

their responsibility to get any notes and assigned work from that day. Please see me

at an appropriate time to discuss any missed work. Extensions may be given if

absences are excused. If absences are not excused extensions on any work will not

be granted.

*Tests:*

Tests will be completed either once or twice a unit, depending on the size of the

unit. Generally, students are given a week’s notice of any upcoming tests but this

may vary by a week or two. If a student is feeling ill-prepared for their upcoming test

extensions may be granted if they have a conversation with me **at least 2 days**

**before the test**, has no unexcused absences and comes in for extra-help to prepare.

If arrangements are not made for an extension the student will have to write the test

on the regular testing day.

*Missing tests:*

If a student knows in advance they will be absent on a test day they must speak

with me ahead of time to come up with an alternate arrangement. If a student has

an excused absence for missing a test they can speak with me on their first day

back to arrange a time to write this test. If the student has not excused absence

they will be expected to write the test on the first day they return to class.

*Assignments:*

There are different types of assignments:

A. Practice questions

These will be assigned on a more consistent basis and students are expected to

complete them to help prepare for upcoming tests. Practice questions are not for

marks but may be checked periodically for work habits.

B. Projects and Labs

- These will be assigned on a less frequent basis, but students can expect one or two

per unit. It is expected that students will hand these in by the due date. A failure to

complete these assignments on time will result in the student coming in before

school, after school or at lunch to complete it. A student will have an ‘incomplete’

in the course until all assignments are handed in. No student has the option of taking

a ‘zero’.

*Quizzes:*

Quizzes are not for formal marks in this course. Quizzes are done and marked in class

to give students an update on their progress through the concepts covered. Often,

students will have an opportunity for a re-quiz so they can feel confident on all

concepts before a test.

*Term and Overall Course marks:*

Each student has a copy of the learning targets for the course. Each Learning target

Is marked according to the following scale:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Learning Category** | **Classification** | **What does this mean?** | **Percent (%)** | | |
| Expert | 6 | I can teach this next year ☺ | 95 | 97 | 100 |
| 5 | Great understanding, only one small error | 86 | 90 | 94 |
| Apprentice | 4 | Good understanding, some consistent errors | 73 | 80 | 85 |
| 3 | You are starting to understand things, but are missing major concepts | 60 | 66 | 72 |
| Novice | 2 | You have shown 50% understanding | 50 | 56 | 59 |
| 1 | You have not shown enough understanding to pass this learning goal yet | 30 | 40 | 45 |

Students will keep track of their marks on the 1-6 scale through the semester. For report card purposes only, this grade will be converted into a percent. Students must have at least a 2 or higher in each concept to pass the course.

*Final Exam:*

This course will have a final exam at the end of the year. This exam will be combined

with the grade from the rest of the year to determine the overall ranking that best

represents your level of understanding of the course material.