

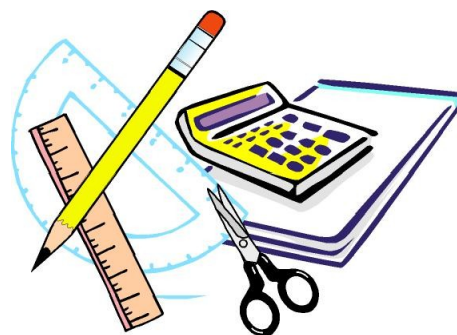
Science 10 Course Outline

Teacher: **Mr. Lowe**
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Moodle Site: <https://blended.kool.sd73.bc.ca/>

Additional Supplies.

1. **Binder. With dividers**
2. Calculator
3. Pencils, pens (at least three colours), highlighter
4. Dry Erase markers
5. Ruler, eraser



Big Ideas

[DNA](#) is the basis for the diversity of living things.

Energy change is required as atoms rearrange in [chemical processes](#).

[Energy](#) is conserved, and its transformation can affect living things and the environment.

The formation of the [universe](#) can be explained by the big bang theory.

The Curriculum

Term 1

Biology

- 1.1 [Remembering Cell Structure and Function](#)
- 1.2 [The Nucleus and DNA](#)
- 1.3 [Genes and Chromosomes](#)
- 1.4 [Mendelian Genetics and Inherited Traits](#)
- 1.5 [Genetic Mutations and Inheritance](#)
- 1.6 [Genetic Mutations and Adaptability of Organisms](#)

Chemistry

- 2.1 [Lab Safety](#)
- 2.2 [Conservation of Mass in Chemical Equations](#)
- 2.3 [Energy Changes During Chemical Reactions](#)
- 2.4 [Types of Chemical Reactions](#)
- 2.5 [Acids, Bases and Salts](#)

Term 2

Physics

- 3.1 [What is Energy](#)
- 3.2 [Conservation](#)
- 3.3 [Our Energy Future](#)
- 3.4 [Work](#)
- 3.5 [Calculating Energy](#)
- 3.6 [Problem Solving](#)

Earth Science

- [Dissecting the Universe](#)
- [Formation of the Universe](#)
- [Stars, Stars, Stars](#)
- [Formation of the Solar System](#)
- [The Sun's Energy](#)
- [Astronomical Data & Collection Methods](#)
- [Other Ways of Knowing about the Universe](#)
- [Space Exploration & Travel](#)

Learning Outcomes:

Assessment of student learning in Science 10 will be correlated to the Curricular Competencies for the course found here: <https://curriculum.gov.bc.ca/curriculum/science/10/>

Curricular Competencies

- Questioning and predicting
- Planning and conducting
- Processing and analyzing data and information
- Evaluating
- Applying and innovating
- Communicating

ASSESSMENT & EVALUATION

Understanding that students are individual in the ways in which they learn and how they best demonstrate that learning to their teacher, there will be a variety of methods through which student learning is demonstrated/evaluated in Science 10. These include, but are not limited to the following: assignments, labs (including formal reports), quizzes, and tests. If you have special needs in terms of instructional methods or evaluation practices, PLEASE discuss these with your teacher (in private if you prefer) so that we can work together to best meet your specific learning needs in the classroom.

Formative assessment (practice): will consist of assigned questions, Learning Guides, and quizzes. Formative assessment does not count towards the final mark

Summative assessment: will consist of unit tests, laboratory reports, and projects. There will be rewrite opportunities for unit tests. In order to pass the course, a passing grade must be achieved on the Final exam.

Learning will be assessed each and every day through activities done in class and with the assignments that you work on individually and collaboratively.

Proficiency Scale (This is what we will use to measure success)				
Not Yet	Getting There	Developing Independence	Got it!	Wow!!
Even with help, the student does not grasp the concept.	With help, the student can demonstrate understanding.	Demonstrates understanding with limited support.	Demonstrates understanding independently.	Demonstrates sophisticated understanding. Able to move beyond the concepts covered in class (transfers understanding)

Effort Marks:

Effort marks will be based off of the Staff developed Work Habits Grit Rubric.

This effort rubric can also be found here:

<https://drive.google.com/file/d/1h42t9B9tiQ1KU3vsj96RQLXad5RHrINx/view?usp=sharing>

Homework

Missed/Incomplete Work

If you are going to miss a quiz/test it is your responsibility to inform me of your planned absence in advance; if you fail to inform me, you will be expected to make up the quiz/test during academic intervention at lunch. In addition, the quiz/test will be different than that of the rest of your peers (this makes Mr. Lowe very grouchy as he has to take time to write a special test for you). Your absence may only be excused by the office.

If your work is not completed on time it will be graded as incomplete (I). You will then be expected to complete the work during lunch or after school at the teacher's discretion. If you have more than one incomplete assignment, quiz, or test, an e-mail will be sent to your parents and the principal containing an interim report of your grades and effort in the class.

If you are absent on a due date it is expected that you will arrive with your work completed at the start of the next class. Upon your return if your work is incomplete the same expectations for incomplete work will apply. Note: missed due dates will only be tolerated for valid excuses.

Lates

Please do your very best to be on time for class. This will prevent disruption of the class that is in progress. If you do arrive late please be considerate of your fellow students and your teacher who are already underway. You may be required to make up the time missed, and students who are regularly late will be referred to administration.

Extra Assistance

- a) Assistance outside of the regular class time is available. Students who feel they don't understand something should arrange for extra help with me.
- b) Tutorial assistance may be available also through the school's tutorial program. Please inquire if you feel this would be beneficial to you.
- c) PLEASE... do not wait to get help if you are struggling. Physics concepts build on one another, so if you don't get something from today's lesson, chances are tomorrow's lesson will require the skills you should have learned today!

How to Succeed in Science 10

1. Always be an active participant!

- Participate in class discussions and activities, complete your assignments and make a definite effort to learn!
- Question everything! If you don't understand, or just want to learn more, ask a QUESTION!

2. Show up and do not give up

- Come to class punctually and prepared.
- Make a schedule and stick to it (this should be an hour a day, 5 days a week minimum).

3. Better late than never.

- Assignments that are not handed in are given an "I"(incomplete) mark until they are handed in. You have a year to complete the course, so don't give up

4. Practice makes perfect

CHEATING

Any student who cheats on a test or quiz, or copies a lab report will not receive credit for that particular task. **It is understood that students who are lab partners will have the same raw data, however, the detailed manner in which the partners write their reports is expected to reflect individual differences in the way they organize their calculations and comment on their data or results.** Cheating will result in a student's effort mark automatically becoming an 'N'. A phone call home will be made and the incident will go on file at the office.

Bottom line: don't loan out your learning guide/lab report.

Welcome to Science 10!

