



Grade 10 Academic Science (SNC 2DI)

Semester: 1	Block: C and D	Room: 109
Teacher: Mr. R. Baird	Teacher Contact Information: 519-621-5920	Teacher Website: http://teachers.wrdsb.ca/baird/

Course Description

This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and systems in animals and plants; chemical reactions, with a particular focus on acid-base reactions; forces that affect climate and climate change; and the interaction of light and matter.

Essential Learnings

To earn this credit, students must demonstrate learning in each of the following areas:

Biology

- Plants and animals, including humans, are made of specialized cells, tissues, and organs that are organized into systems.
- Developments in medicine and medical technology can have social and ethical implications.

Chemistry

- Chemicals react with each other in predictable ways.
- Chemical reactions may have a negative impact on the environment, but they can also be used to address environmental challenges.

Earth and Space Science

- Earth climate is dynamic and is the result of interacting systems and processes.
- Global climate change is influenced by both natural and human factors.
- People have the responsibility to assess their impact on climate change and to identify effective courses of action to reduce this impact.

Physics

- Light has characteristics and properties that can be manipulated with mirrors and lenses for a range of uses.
- Society has benefited from the development of a range of optical devices and technologies.

Evidence of Learning

Students will demonstrate their learning through the following activities, tasks, assessments and evaluations:

Unit #	Description	Weight
1	Chemistry <ul style="list-style-type: none">Nomenclature QuizzesVarious Lab InvestigationsChemistry Unit Test	70 %
2	Physics <ul style="list-style-type: none">Light, Refraction QuizzesVarious Lab InvestigationsOptics Unit Test	
3	Biology <ul style="list-style-type: none">Cell Diagrams, Mitosis AssignmentCell, Systems QuizzesSystems Unit Test	
4	Earth and Space Science <ul style="list-style-type: none">Climate Change AssignmentClimate Quiz	
	Final Evaluation Written Examination	30%

Course Evaluation

Student work will be evaluated using a balance of the Ministry’s four achievement chart categories: knowledge & understanding, thinking & inquiry, application, and communication.

Throughout the course, teachers will gather evidence of student learning through observations, conversations, and student-produced work.

Seventy percent (70%) of the final mark will come from term work, and thirty percent (30%) will come from final evaluations. Report card grades will reflect the student’s most consistent level of achievement, with consideration given to more recent evidence.

Procedures

Late and Missing Assignments:

It is important for students to develop good personal management skills (such as time management and planning). These skills will be reflected in the **Learning Skills** area of the report card. All of the Essential Learning must be demonstrated in order to earn this credit.

Attendance:

Attendance in classes is an important part of learning, and absences should be avoided. When a student is absent, a parent/guardian must call the school’s attendance line on the date of absence, or provide a note explaining the absence for the student to submit the following day. Students are responsible for what they missed during their absence.

Cheating and Plagiarism:

Students are responsible for being academically honest in all aspects of their schoolwork.

Students at Southwood will be responsible and only hand in assignments that are of their own work/creation to demonstrate that they have met the curriculum expectations. They will responsibly use sources when completing assignments, reports, and essays, and give credit to all sources. To cheat or plagiarize is to be dishonest with your teachers, peers, and sources, and yourself.

In the event that cheating or plagiarism occurs, the following consequences may be implemented, in consultation with administration, depending on the situation:

- The student will redo all or part of the assignment or assessment; or
- The student will complete an alternate assignment or assessment; or
- The student’s work will be treated as a missed assignment.
- Additionally, the student may face disciplinary action (e.g., suspension, detention) and loss of access to academic awards and scholarship opportunities.
- Parents/guardians will be informed about the infraction and the consequences.

Please refer to the school website for more details on these policies and other academic procedures.



Signatures

Please sign below indicating you have read and understand the requirements for successful completion of this course. Please cut off and return this portion.

Student

Parent/Guardian

Date

Date

Contact Information

Please indicate the email address(es) you wish me to use for information about the course and your son/daughter’s progress.

Email Address

Email Address