

Dear 10 A Edmonton Classical Families,

I am excited to welcome your child as their Science 10 instructor and homeroom teacher. Every day, your child is scheduled in the Conference Room from 8:15 AM to 9:47 AM and will be expected to bring their necessary supplies.

Your child will follow the Science 10 curriculum as described in the Program of Studies. While physical textbooks are out-of-print, digital copies of ScienceFocus 10 will be available for student use. Information about how to access this resource will be shared during the course. Instruction will be primarily from notes given during class, supplemented by printed handouts.

This is a general science course that requires some degree of recall, but otherwise contains novel information. The four topics are presented individually but do form connections through the Unit D: Energy in Global Systems section. Students will engage in deeper exploration of specific concepts by looking at 3 primary sources. The course also has hands-on laboratories and activities that enhance the content. Students are expected to internalize the important portions of course content, analytical thinking, and practical skills in order to synthesize ideas in both formative and summative work.

Nightly homework will vary with the flow of the course; this may look like worksheet practice to additional reading or project work. Regular assessments will take place during each unit with unit exams at the end of the 3 main domains: Physics, Chemistry, and Biology. The course will end with a summative Final Exam. See below for information on the grading scheme for the course.

We will complete our course at the end of the school year, June 22, 2027. Each day will be eighty-two minutes of instruction; therefore, during the first week of class, students will be organizing their supplies, learning our daily routines, learning about scientific conventions, and exploring the scientific method.

Science 10 Full Year Course Syllabus

Marks in this course will be based on written work as well as on practical tasks. Your performance in labs, as well as using lab equipment, will be counted as part of your course mark. It is very important that you attend all classes, as every class will cover new material and provide 'hands-on' opportunities.

This course follows the topics outlined in the Alberta Program of Studies while enhancing portions of the curriculum to align with Classical pedagogy. Primary sources will be introduced and studied to this end.

Course Mark

There are four main topics that will be covered in this course, spanning thirteen chapters in the textbook. This course will cover the following topics approximately in the order listed:

Physics (Chapters 4-6)	18.75%
Chemistry (Chapters 1-3)	25.50%
Biology (Chapters 7-9)	18.75%
Climate (Chapters 10-12)	12.00%

Each of these units will have a portion of the grade based on written work (25%) and quizzes (35%), and one unit final (40%).

A final exam is scheduled for late June, worth 25% of your overall mark.

This course covers a great deal of material, most of which will be new to you. You are expected to put in time outside of class, practicing and reading assigned material, if you expect to pass this course. The responsibility to complete the homework and studying is your own; I may be approached during class time or during office hours for extra help.

Absences

If you miss a class for medical reasons, you will be expected to make up the missed material on your own, using a classmate's notes. Students who regularly miss classes may be removed from this course. If you miss an exam, quiz, or lab, you will be expected to provide a note on the day of your return. The school expects that absences will be phoned into the school when possible. **If no note and phone call are received, a mark of zero (0) will be assigned to the missed activity.** Labs may not be made up after returning from an absence. Unit exams are to be written on the student's time within one day of returning to school.

Classroom Expectations

Student Responsibilities

- Follow the **Student Code of Conduct**.
- **Be on time for class!** If the bell has gone, you are considered to be late. Quizzes may be given in the first few minutes of class. Late students will be required to complete assessments within the expected time provided to the class.
- It is the student's responsibility to be prepared for class, having a **pen, pencil, and your binder available, and a calculator when needed**. Only assignments/labs written in pencil or blue or black ink pens are accepted. A non-programmable calculator is strongly recommended, as any programmable calculator will not be allowed into an exam. This allows you to practice with the calculator throughout the course in preparation for tests.
- **Class time is work time.** If you are given work to do in class, you are expected to be working on it for the entire period. "I'll do it at home" and "Class is almost over" are not valid excuses to not be working.
- **Wear appropriate clothing in the lab.** It is recommended that students wear pants on the day of a lab. Shoes must be closed-toed and closed-heeled.
- It is the **student's responsibility** to make up missed work. You are responsible to get any notes, assignments, or information given. Only under rare circumstances will you be omitted from an assignment.
- If you know that you will miss an exam, you must **notify the teacher before the exam**. Missed exams due to illness require a doctor's note.

Consequences

- Consequences for violations of the student code will be dealt with as outlined in the code itself.
- Lates and absences will be discussed with you first, then your parents, then administration.
- Late assignments may have penalties deducted. Being absent from class is not a valid reason to not complete or hand in your homework.

What you can expect from me

- To be treated fairly and respectfully when you treat me fairly and respectfully.
- To be available to answer any questions or concerns or to provide extra help. This can be done by appointment or on a drop-in basis.
- To be given clear expectations for assignments and tests. Success results from following these expectations.
- To be provided an education that meets the standards of the Alberta Curriculum.

Intended Course Sequence

Days	Topics Intended	Major Assessments
1-3	Introduction to course, science skills, scientific method	N/A
4-7	Climate (Chapter 10), components of the biosphere, properties of water, energy in the biosphere	Chapter 10 Quiz Proposed September 21
8 - 28	Physics (Chapters 4-6), historical uses of mechanical energy, kinematics, forms of energy, energy transformations	Physics Unit Exam Proposed November 26
29 - 56	Chemistry (Chapters 1-3), composition of matter, classification of matter, IUPAC nomenclature, classification and prediction of chemical reaction equations, related calculations	Chemistry Unit Exam Proposed March 9
57 - 78	Biology (Chapters 7-9), biogenesis as evidence of cells, cell structures, microscopy, plants as multicellular organisms, response to environment	Biology Unit Exam Proposed May 26
79 - 84	Climate (Chapters 11-13) organization of life into biomes based on climate, classification of biomes, climatographs, causes of and effects on climate change	Chapter 11-13 Quiz Proposed June 13
85 - 86	Course Review	Cumulative Final Exam Proposed June 21

All Unit Exams as well as the Final Exam contain an assortment of multiple-choice, numerical-response, and open-response questions. The distribution of questions varies by assessment. Clarification will be provided prior to each major assessment.