



Crocus Plains Regional Secondary School

COURSE OUTLINE AND ASSESSMENT GUIDE

Course Name: Science 10F

Teacher's Name: A. Bucklaschuk

Contact Information: Bucklaschuk.andrea@bsd.ca

Course Description: A general science course that covers the areas of physics (energy), chemistry (matter), and biology (genetics and evolution). The goal of this science course is to expose the student to a wide variety of science issues and topics in a meaningful and challenging way.

Units of Study

Unit Title	Essential Outcomes
Genetics	1. Explain how living things reproduce without a partner. 2. Explain how living things reproduce using sperm and eggs. 3. Explain the parts of the human reproductive system and how hormones control it. 4. Explain how sexual reproduction creates differences between offspring. 5. Explain what genetic mutations are and how they can affect organisms. 6. Explain how differences in organisms can help them survive and adapt. 7. Explain how DNA, genes, and chromosomes carry information for traits 8. Explain how diseases can change over time and how we can help prevent their spread.
Evolution	1. Describe how life on Earth has changed over billions of years. 2. Explain how scientists use fossils and other evidence to learn about early life. 3. Explain how natural and sexual selection can cause organisms to change over time. 4. Explain how changes that build up over time can lead to new species. 5. Compare how natural selection and human-controlled breeding change organisms. 6. Explain how environmental changes can affect survival, population size, and extinction.

Matter	1. Tell the difference between pure substances and mixtures. 2. Tell the difference between physical and chemical changes. 3. Explain that mass is not lost or gained during a chemical reaction. 4. Explain that all matter is made of atoms, elements, and compounds. 5. Describe the parts of an atom and how they are arranged. 6. Explain how positive and negative charges attract or repel each other. 7. Explain how the periodic table is organized and how an element's position helps predict its properties.
Energy	1. Explain how AC and DC electricity are used in everyday life. 2. Explain that energy is conserved and describe how energy is stored, used, and transferred. 3. Explain how current, voltage, and resistance work together in simple circuits. 4. Explain how electricity and magnets are connected and how electromagnets and generators work. 5. Compare different ways of generating electricity and their advantages and disadvantages. 6. Explain how hydroelectricity is generated and delivered to homes in Manitoba. 7. Identify and follow basic safety rules when working around electricity.

Assessment Guidelines

There are various purposes for assessment:

- **Assessment *for* learning (formative assessment):** where assessment helps teachers gain insight into what students understand in order to plan and guide instruction, and provide helpful feedback to students. Formative assessment may include: homework checks, observation, worksheets, demos, journals, discussions, etc.
- **Assessment *of* learning (summative assessment):** where assessment informs students, teachers and parents, as well as the broader educational community, of achievement at a certain point in time in order to celebrate success, plan interventions and support continued progress. Summative assessment may include: tests, quizzes, projects, labs, etc.

Academic Achievement

Grades will be calculated on summative assessment information only. The final calculation will be a fair reflection of a student's achievement of the learning outcomes.

Term Work 85 %

Final Exam 15 %

Academic Integrity

- means demonstrating your own learning by submitting original work and appropriately recognizing the ideas, words, and contributions of others.

Plagiarism is using someone else's ideas, words, or work and presenting them as your own. At school, plagiarism may include, but is not limited to:

- Submitting work completed by someone else.
- Copying ideas, words, or information from a book, website, or other source without properly citing the source.
- Copying or submitting an entire assignment created by another person or taken from another source.
- Submitting the same work for more than one class without written permission from all teachers involved.
- Using AI tools when their use has not been permitted by your teacher.

Artificial Intelligence and Academic Honesty

Using ChatGPT or other artificial intelligence (AI) tools without permission on assessments is considered a breach of academic honesty. The following principles should guide the appropriate use of AI:

- **AI does not replace your own thinking.** Your work should demonstrate your ability to think critically, analyze information, make connections, and apply what you have learned.
- **AI should support learning, not do the learning for you.** Inappropriate use of AI can prevent you from developing the knowledge and skills expected in the classroom and in future workplaces.
- **Follow your teacher's instructions.** If AI use has not been permitted for an assignment or assessment, do not use it.
- **Unauthorized AI use may be considered academic dishonesty.** Using AI without your teacher's permission may result in an allegation of academic dishonesty. A finding of academic dishonesty may have both academic and personal consequences.

Absences

- When you have been absent from class, keep in mind that it is your responsibility to find out what you have missed and catch up on all the missed work.

Absences on assessment days:

- Please have your parent/guardian call the school office at 204-729-3900 to acknowledge that your absence is excused.
- Missed tests are to be written on the next day that you return to school.
- An unexcused absence on an assessment day can result in you receiving a grade of zero.

Assignment Deadlines and Late Policy

Deadlines

You will always be informed of upcoming assignment and assessment due dates. Due dates will be:

- Communicated to you in advance
- Displayed on the white board in the classroom

Missed Work — Excused Absences

If you miss a class, assignment deadline, or assessment for a valid reason—such as illness, an appointment, a school event, family responsibilities, or an emergency—you are expected to:

- Have your parent/guardian contact the school to excuse the absence.
- Message Ms. Bucklaschuk on Teams to see what you have missed that day and develop a plan for catching up.

Missed Work — Unexcused Absences

Students who miss a due date, class, or assessment without a valid reason may lose the opportunity to complete the missed work or assessment at a later date.

Extension Policy

Sometimes unexpected circumstances can make it difficult to meet a deadline. If you are having difficulty completing an assignment or assessment on time, **speak with Ms. Bucklaschuk before the deadline** so that you can work together to develop a plan.

When there is a valid reason, Ms. Bucklaschuk may approve an extension and establish a new deadline. The revised deadline may be communicated to you, your parent/guardian, and/or your Student Services team, as appropriate.

It is your responsibility to meet the revised deadline. If the extended deadline is missed without further communication or a valid reason, the assessment may receive a **zero**.

EXPECTATIONS

1. Your behavior in class must not prevent the teacher from giving the lesson or interfere with anyone else's opportunity to learn. This means only one person talks at a time.
2. Observe all safety rules of a science lab. Including **NO FOOD OR DRINK** in the science lab on lab days.
3. Arrive to class **on time** and prepared with your supplies (notebook, textbook, pen, pencil, eraser, ruler).
4. Complete and hand in your homework and assignments **on time**.
5. No cell phones or any electronic devices are to be used in the classroom, unless approved by Ms. Bucklaschuk, they cause distractions to yourself and to other students. In the event of an emergency, parents/guardians are able to call the school at 204-729-3900.
6. Communication. I am not a mind reader. If assignments come in late, with no communication, expect there to be a consequence. As such, if you are away for a period of time, without communication, do not expect me to catch you up. **Success requires effort. A level of maturity and independence is required.**

Welcome to Science 10F!

I am looking forward to working with you this year. Please fill out the questions in the “student” section and have your parent/guardian fill out the bottom of the page and return it to Ms. B tomorrow!

Student Section

Name: _____

What you prefer to be called: _____

What is your favourite subject? _____

What is your least favourite subject? _____

What was your mark in science last year? _____

Who was your science teacher last year? _____

What are your hobbies?

Are you planning to be involved in any extra-curricular activities at Crocus Plains?

Parent/Guardian Section

Name(s): _____

Best number to reach you at during the day: _____

Home number (if different from above): _____

Can I communicate with you regarding your student by email? _____

If so, what is the best email address to use? _____

Feel free to contact me with any questions/concerns!

Please return this page to Ms. Bucklaschuk tomorrow.

Thanks so much! I am looking forward to a great semester with you!

Ms. Andrea Bucklaschuk