



Science 10 Course Outline

Cambie Secondary School
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GOALS OF THIS COURSE

Welcome to Science 10! In this course, we will focus on the following:

- **Science Knowledge:** Understand and apply scientific theories, principles, and laws towards interpreting real and hypothetical scenarios.
- **Science Literacy:** Interpret and draw appropriate conclusions from scientific diagrams and texts.
- **Inquiry and Discovery:** Use the scientific method to safely and effectively construct, carry out, and interpret scientific experiments.
- **Science Communication:** Communicate understanding using oral, written, and digital forms for different purposes and audiences.

BIG IDEAS

The following are the **big ideas** and content areas that will be covered in this course (time-permitting):

<p>DNA is the basis for the diversity of living things</p> <p>DNA, genes, patterns of inheritance, mutation, natural selection, artificial selection, applied genetics and ethics</p>	<p>Energy change is required as atoms rearrange in chemical processes</p> <p>types of chemical reactions, balancing equations, acid-base chemistry, conservation of mass, conservation of energy, energy changes during chemical reactions, nuclear energy and radiation</p>
<p>Energy is conserved, and its transformation can affect living things and the environment</p> <p>potential energy, kinetic energy, transformation of energy, impacts of energy transformations</p>	<p>The formation of the universe can be explained by the big bang theory</p> <p>big bang theory, components of the universe over time, astronomical data and collection methods</p>

ASSESSMENT AND GRADES

Report card grades and comments are generated based on the proficiency scale (shown on the right). Report cards will be published to the SD38 Portal, along with evidence of students' learning.

Proficiency Scale	←			
	Extending	Proficient	Developing	Emerging
	The student demonstrates a sophisticated understanding of the concepts and competencies.	The student demonstrates a complete understanding of the concepts and competencies.	The student demonstrates a partial understanding of the concepts and competencies.	The student demonstrates an initial understanding of the concepts and competencies.

Assessment of learning can either be formative or summative. **Formative** assessments occur *during the learning* process and are a feedback tool for the student to know their strengths and areas for improvement. These may include homework, quizzes, draft work, practice questions, and group discussions. **Summative** assessments occur *after the learning* process has been completed and are an indicator of the student's understanding. These can take the form of chapter and unit tests, quizzes, lab reports, projects and assignments. Students are required to demonstrate, at minimum, a Developing understanding on all summative assessments; rewrites or redos may be necessary to achieve this outcome.

Important Dates

Interim Reports:	March 2, 2023
Mid-Semester Reports:	April 25, 2023
Final Reports:	June 28, 2023

Note: Rewrites are a privilege, **not a right**. Should a student wish to exercise this privilege, it is the student's responsibility to complete test corrections outside of class time and demonstrate evidence of additional study, learning, and reflection in a timely manner to become eligible for **one** additional opportunity to demonstrate evidence of learning. The format and level of difficulty of this opportunity will be determined at the discretion of the teacher and its mark will overwrite the original mark.

Classroom Expectations

All Cambie students are expected to follow the 3R's: **Respectful**, **Responsible** and **Ready** to Succeed. Student work habits are determined by meeting the following expectations:

3R's	<i>What does this look like in the classroom?</i>
<p><i>Respectful</i> <i>to others</i></p> <p><input type="checkbox"/></p>	<ul style="list-style-type: none"> • Be on time for every class • Practise good listening when others are speaking • Raise your hand before speaking • Be polite and use appropriate language • Stay focused and avoid distracting others during instruction and work periods • Leave the classroom neat and tidy, stacking the chairs if you are the last class of the day • Wait to be dismissed before packing up
<p><i>Responsible</i> <i>for ourselves</i></p> <p><input type="checkbox"/></p>	<ul style="list-style-type: none"> • Be safe when in the classroom: walk, use your indoor voice, and do not engage in horseplay or touch things that are not yours • Remain focused during class; use electronic devices only when permitted by teacher • Take responsibility for completing your own work, handing it in on time, and giving credit for others' ideas • Be proactive and contact a classmate or teacher as soon as possible after missing a class
<p><i>Ready</i> <i>to succeed</i></p> <p><input type="checkbox"/></p>	<ul style="list-style-type: none"> • Be on time and prepared for every class, with supplies ready and binder organized • Record homework daily in agenda • Participate in all class activities • Complete homework regularly and ask for help when needed • Strive to do your best work at all times

Homework Expectations

Homework builds on content taught in-class and provides practice leading up to key assessments: as such, homework completion is essential for student learning and success in this course.

Students are expected to take responsibility to record their own homework and important dates in their agenda after every class. All homework must be submitted by the due date.

Should extenuating circumstances arise that make it unfeasible for the student to submit work or write a test on time, the student is required to notify the teacher at the earliest possible opportunity, with a parent's note (and doctor's note, in case of illness) explaining the situation. Requests will be evaluated on a case-by-case basis.

Work Missed Due to Absence

Students should do their best to attend every class and be on time. However, occasionally, situations may arise (emergencies, medical reasons, field trips, etc.) where this is not possible. But class does not stop just because you are away! You are *solely* responsible for making up for all work you miss.

If you miss a class, you should:

- **Get the notes and an explanation** from a classmate who was here
- **Read through the textbook section**, and **review the powerpoint** that covers what you missed
- **Get copies of any handouts** that you missed (from website)
- **Do the homework** that was assigned; ask a classmate
- **Hand in** anything that was due that day
- **See Ms. Au with questions** only after you have done everything else listed above

If you miss an end-of-chapter test or quiz, it is the responsibility of the student to arrange to write it ***outside of class time within a week*** of returning to school.

Homework Contact #1	Homework Contact #2
Name: _____	Name: _____
Contact Info: _____	Contact Info: _____

Academic Honesty

Part of being Responsible and Ready to Succeed means taking ownership of our own work and not submitting any work that is not ours. Ms. Au has zero tolerance for academic dishonesty. This includes but is not limited to: sharing homework with others, copying homework from others, failing to cite sources on assignments, and cheating on tests. Any students suspected of cheating will receive an Incomplete on that assignment and/or be required to re-do it.

DIGITAL DEVICES IN THE CLASSROOM

Electronic devices *may be used with teacher permission* for appropriate activities such as accessing the class website or textbook, research, web-based activities (e.g. Kahoot, PeerWise), or listening to music during individual work. Otherwise, electronic devices must be out of sight and put away in backpacks. Smartphones and devices that are used irresponsibly or without teacher permission will be immediately confiscated and held in the main office for the duration of the day.

SUPPLIES AND MATERIALS

General Supplies

All students are expected to come to class prepared with the following materials:

- basic stationery (pencil, eraser, pens, highlighter, ruler)
- 3 ringed binder with unit dividers
- lined paper
- agenda (physical book or MySchoolDay app)

In addition, students should have the following on hand as they will be needed for specific units:

- calculator (not phone), scissors, glue, pencil crayons

Textbooks and Workbooks

Various resources will need to be accessed for studying and homework purposes.

- BC Science 10 Connections:
 - Textbook
 - Workbooks available for purchase (*strongly recommended*) or loan from library
- Class website to access assigned work, videos, powerpoints, etc.

EXTRA HELP

Please communicate with me when you plan to seek extra help. I will be available after school most days upon request. You may also e-mail questions; however, please be advised that replies may take up to 2 work days. Do not e-mail questions the night before the test!

Please review this course outline and successfully complete the Google Forms Quiz (link: <https://forms.gle/CBGBumLyrYyd7cJP9>) by _____. To complete this assignment, you must repeat the quiz as many times as it takes until you achieve a perfect score (16/16).