



# Science 8 Course Outline

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## GOALS OF THIS COURSE

Welcome to Science 8! 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><b>Laboratory safety and skills</b></p> <p>safety equipment, emergency procedures, laboratory equipment, microscopes, measurement, inquiry, scientific method, designing a single-variable controlled experiment</p>	<p><b>The behaviour of matter can be explained by the kinetic molecular theory and atomic theory</b></p> <p>kinetic molecular theory, development of atomic theory, subatomic particles</p>
<p><b>Life processes are performed at the cellular level</b></p> <p>characteristics of life, cell theory, energy transformations, micro-organisms (immune system, vaccination and antibiotics, disease, medicine)</p>	<p><b>Energy can be transformed as both a particle and a wave</b></p> <p>electromagnetic radiation, properties of light, lenses and mirrors, human vision</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, as will 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, exit slips, reflections 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:

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

**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.

<b>Homework Contact #1</b>	<b>Homework Contact #2</b>
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)
- calculator (not phone)
- 3 ringed binder with unit dividers and lined paper
- agenda

In addition, students will occasionally be asked to bring the following supplies to class:

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

It is *extremely important* that all students have their own stationery and supplies this year, to keep all students safe. Sharing supplies among students is discouraged because of the increased risk of disease transmission. Limited supplies may be available in the classroom, but it is up to the student to disinfect before and after use.

### Textbooks and Workbooks

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

- BC Science 8 Connections:
  - Hard-copy Textbook
  - Workbooks available for purchase (*strongly recommended*) or loan from library
- Class website to access assigned work, videos, powerpoints, etc.
- Portal website to post evidence of learning and reflections

## 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 48 hours. 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/XFFPKkqVTtkQ1mBw9>) by \_\_\_\_\_. Repeat the quiz as many times as it takes until you achieve a perfect score (16/16).