

# Science 9 Course Outline

**Teacher:** Ms. B. Li

**Room:** Rm. 314 – Period 6, Rm. 326 – Period 7 & Rm. 315 – Period 8

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**Website:** <https://mslisciences.weebly.com/>

## Textbooks:

- I. BC Science Connections 9 (McGraw-Hill Ryerson, 2016)

## Supplies Needed:

- Binder, lined paper, pens, pencils, eraser, calculator, agenda (paper or digital), textbook

## What we are learning:

The curriculum for Science 9 can be found here: <https://curriculum.gov.bc.ca/curriculum/science/9> It is broken down into 4 areas: Biology (Cells), Chemistry (Electron arrangement), Physics (Current) and Ecology (“spheres” of the earth).

<b><u>Unit A: Processes of Science</u></b>	<ol style="list-style-type: none"><li>1. Safety</li><li>2. Equipment in the laboratory</li><li>3. Scientific Method</li></ol>
<b><u>Unit 1: Reproduction</u></b> (Biology)	<ol style="list-style-type: none"><li>1. Cells</li><li>2. Different forms of Asexual Reproduction</li><li>3. Sexual Reproduction</li><li>4. Human Sexual Reproduction</li></ol>
<b><u>Unit 2: Atoms, Elements and Compounds</u></b> (Chemistry)	<ol style="list-style-type: none"><li>1. The Periodic Table</li><li>2. Element properties</li><li>3. The History of The Atom</li><li>4. Compounds formed by Elements</li><li>5. Naming and writing Chemical Formulas</li></ol>
<b><u>Unit 3: Electricity</u></b> (Physics)	<ol style="list-style-type: none"><li>1. Energy Sources</li><li>2. Electricity</li><li>3. Series and parallel circuits</li><li>4. Voltage, Current, and Resistance</li></ol>
<b><u>Unit 4: Ecosystems</u></b> (Earth Sciences)	<ol style="list-style-type: none"><li>1. Effects of Solar Radiation</li><li>2. Cycling of Matter and Energy</li><li>3. Biotic and Abiotic components of ecosystems</li><li>4. Sustainability of systems</li></ol>

**Assessment:**

Your Semester 2 mark will be calculated as follows:		
<b>Classroom Learning</b>	<b>Classroom Activities &amp; Homework</b> <ul style="list-style-type: none"> <li>• In class activities and group work</li> <li>• Class quizzes, Kahoot, etc.</li> <li>• Homework checks</li> <li>• Bonus marks</li> </ul>	10%
<b>Assignments &amp; Labs</b>	<b>Assignments, Labs and Projects</b> <ul style="list-style-type: none"> <li>• Marked assignments</li> <li>• Reflections</li> <li>• Pre-lab quizzes</li> <li>• Labs</li> <li>• Small projects</li> </ul>	15%
<b>Summative</b>	<b>Summative assessments</b> <ul style="list-style-type: none"> <li>• Unit Tests</li> <li>• Post lab quizzes</li> <li>• Unit projects</li> </ul>	75%

This class uses letter grading and proficiency scale assessment.

<b>Incomplete (I)</b>	<b>Emerging (EMG)</b>	<b>Developing (DEV)</b>	<b>Proficient (PRF)</b>	<b>Extending (EXT)</b>
Does not yet meet the basic criteria or provide evidence of learning for the assignment. Work needs to be re-submitted once it is re-done or corrected.	<i>"I can do this with help"</i>  Demonstrates an initial understanding of the learning.	<i>"I can do this, but I need some assurances or confirmation"</i>  Demonstrates a partial understanding of the learning.	<i>"I can do this independently"</i>  Work shows a complete understanding of the learning.	<i>"I can teach this to others"</i>  Work that demonstrates a sophisticated understanding beyond learning outcomes.

# Class Expectations

## **General Expectations**

- Behave responsibly in class - come prepared to learn and contribute.
- Only leave the room if you have Ms. Li's permission.
- Complete all in-class and take-home assignments, and keep them orderly in a binder
- No food, gum or drinks in the lab unless you've asked the teacher (bottled water is fine)

## **Attendance**

You are expected to be in your seat and ready to begin class on time. If you come in late, please enter quietly without disrupting the class. Repeating offenses will result in phone calls home, detentions and/or referrals to the Vice Principal.

## **Work Missed Due to Absence**

You are responsible for obtaining **missed class notes and assignments** if you are absent/late.

**Tests or quizzes missed** due to excused absences should be made up within a week. If you know of an upcoming absence, it is your responsibility to notify the teacher and arrange an alternative day to complete the quiz/test.

If you miss a class, you should:

- **Get copies of handouts** that you missed (from website or from spare handouts bin)
- **Ask a classmate**
- **Do the homework** that was assigned
- **Hand in** anything that was due that day
- **See Ms. Li with questions** after you have done everything else listed above
- **Come during Flex** (Room 314)

## **Phones**

Cell phones, computers, and iPads will be used for educational purposes in this class. However, inappropriate use of cell phones (i.e., texting/gaming/watching videos during instructional time) may result in the phone being taken away for the remainder of class. Repeated offenses will result in the phone being turned over to the office for pick-up at the end of the school day.

## **Extra Help**

If you have problems with homework, assignments or the course content, please do not hesitate to ask Ms. Li for help. We can set up a time to meet, or you can drop by in the mornings and/or after school.

## **Website**

I maintain a class website <https://mslisciences.weebly.com/> that includes links to the course notes & worksheets.

Please review this course outline and successfully complete the Google Forms Survey (link: <https://forms.gle/atgAPm9ys8QKZr5u7>)

# Student Safety Contract for Laboratory Work

Class: \_\_\_\_\_ Student's Name: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

## I WILL:

1. Follow all written and oral instructions given by the teacher.
2. Ask questions, or state concerns before beginning a lab procedure.
3. Behave in a manner that will ensure the health and safety of myself and others in the laboratory or classroom at all times.
4. Use protective devices for my eyes, face, hands, body and clothing during laboratory activities.
5. Know the location and use of first aid and fire extinguishing equipment.
6. Refrain from eating, drinking, chewing gum or applying cosmetics in the laboratory.
7. Keep my work area clean and free of clutter during a lab class.

I have read the set of written safety rules prepared by my teacher, and agree to follow these and any other safety rules.

Student's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Please list any known allergies or health problems:

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## ***THIS SECTION IS ONLY FOR STUDENTS WHO WEAR CONTACT LENSES:***

Contact lenses are not recommended to be worn in the laboratory as certain chemical fumes or small particles may become lodged under the lens. Please be aware of the slight increase in the risk of eye damage for contact lens wearers as compared to students in similar situations without contact lenses. All students must wear safety goggles in certain activities, even if they wear contact lenses or prescription glasses.

Please check the appropriate choice below and sign. Whatever you decide, it is up to your son/daughter to follow your choice.

1. My child will wear contact lenses under goggles during labs: \_\_\_\_\_
2. My child will remove contact lenses prior to lab and wear glasses under goggles: \_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_ Date: \_\_\_\_\_

