

# SCIENCE 8 COURSE OUTLINE

**GENERAL:** Science 8 is an introduction to the field of science and students will investigate several different topics over the course of this semester. For many students this will be their first exposure to learning in a laboratory setting, and while this can be quite rewarding, it is wise to be aware of the dangers that are ever present. We will address all safety rules and regulations as they apply throughout the course.

**TEXTBOOKS:** BC SCIENCE 8 & BC SCIENCE 8 CONNECTIONS

## APPROPRIATE MATERIALS FOR EACH CLASS:

textbook, 3-ring binder, lined paper, pens, pencils, eraser, calculator

## SCIENCE BINDER:

Each student is expected to have a science specific 3-ring binder that is divided into the following sections:

- |              |            |
|--------------|------------|
| 1. Biology   | 3. Physics |
| 2. Chemistry | 4. Geology |

## MISSED ASSESSMENTS:

In fairness to all, students are expected to write and/or hand in their assessments on the scheduled date and time. If a student is legitimately unable to do so, all efforts must be made to inform the teacher by e-mail [weiss\\_l@surreyschools.ca](mailto:weiss_l@surreyschools.ca) or by telephone message 604-531-8354 ext 46685.

## BIG IDEAS:


- Life processes are performed at the cellular level (**Biology**)
- The behaviour of matter can be explained by the kinetic molecular theory and atomic theory (**Chemistry**)
- Energy can be transferred as both a particle and a wave (**Physics**)
- The theory of plate tectonics is the unifying theory that explains Earth's geological processes (**Geology**)

## CORE COMPETENCIES:

- Communication
- Thinking
- Personal and Social

**EVALUTAION:** Student understanding of the **BIG IDEAS** in this course will be evaluated on their ability to express the **CORE COMPETENCIES** via the **PROFICIENCY SCALE** using the following break down:

Scientific inquiry and processes	5%
Biology	15-20%
Chemistry	15-20%
Physics	15-20%
Geology	15-20%
Final Assessment	15-20%
Overall	100%

<b>Proficiency Scale</b>				
	<b>Emerging</b>	<b>Developing</b>	<b>Proficient</b>	<b>Extending</b>
	The student demonstrates an initial understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a partial understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a complete understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a sophisticated understanding of the concepts and competencies relevant to the expected learning.

**CLASSROOM EXPECTATIONS:**

1. Jackets, purses, backpacks etc. are **NOT** permitted as they pose a safety hazard (leave these in your assigned locker)
2. **ELECTRONIC DEVICES** will be silenced and out of reach when not in use.
3. No sitting on desktops or countertops
4. No contact lenses, hats, dangling jewelry, ties etc. on lab days
5. Absolutely **NO FOOD** or **DRINK** in the lab (at any time)

In an effort to facilitate the PARENT-TEACHER-STUDENT relationship, which is integral to success in school, I have developed a website that has a detailed breakdown of all material covered in class on a daily basis. To confirm that you are aware that this site exists and to ensure future communication I would ask that you visit <https://weissworldofscience.weebly.com> and e-mail me the following statement:

*I, name, parent of child's name am aware that you have a website and have visited it with him/her/them .*

Information for your child's class will be under the *Science 8 Semester 1* tab. It is my hope that together we can make Science 8 a wonderful experience!

-Mrs. Weiss

Student signature: \_\_\_\_\_

Parent/Guardian signature: \_\_\_\_\_

Medical information (if applicable): \_\_\_\_\_

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