

# Science 8

Mrs. van der Vossen

**vandervossen.weebly.com**

**mvandervossen@sd73.bc.ca**

Science 8 is an academic course that will require a lot of work, but it will also be a lot of fun! Your grade is composed of assignment, laboratory, quiz, test, project, and exam grades. Assignments will contribute to your effort grade, and your percentage.

## **Achievement Assessment:**

### **Marking bins:** (weighting might change)

Matter: KMT and Atomic Theory	30%
Life Sciences: Cells	30%
Energy: Particles and Waves	15%
Earth Science: Plate Tectonics	25%

### **Weightings in each bin:**

Assignments	1
Quizzes/Projects	2
Tests	3

## **General Information:**

**Supplies:** You need to bring the following supplies to class everyday:

- Binder with paper
- Pens or pencils and a calculator: iPods/Cell Phones are not allowed to be used as calculators on tests and quizzes!
- Textbook and or Workbook

Your preparedness for class will factor into your effort grade

**Website:** The course website has daily notes, homework, handouts, and general information. **vandervossen.weebly.com**

**Exams:** You will have chapter and unit tests and or projects.

There is **no** mid-term and **no** final exam.

## **Classroom Expectations**

- **NO CELL PHONES or MUSIC DEVICES** leave in your locker or if you bring them to class they go into the bin for the whole class
- Come prepared to work every day
- No food or drinks
- No open shoes/sandals during labs

<b>BC Science 8 BIG IDEAS</b>			
The behavior of matter can be explained by the kinetic molecular theory (KMT) and the atomic theory	Life processes are performed at the cellular level	Energy can be transferred as both a particle and a wave	The theory of plate tectonics is the unifying theory that explains the Earth's geological processes

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<b>Unit</b>	<b>Content</b>
Matter: KMT and Atomic Theory <b>30%</b>	Kinetic molecular theory
	Atomic theory and models
	Protons, neutrons, and quarks
	Electrons and leptons
Life Sciences: Cells <b>30%</b>	Characteristics of living things
	Cell theory and types of cells
	Photosynthesis and cellular respiration
	The relationship of micro-organisms with living things: <ul style="list-style-type: none"><li>- Basic functions of the immune system</li><li>- Vaccination and antibiotics</li><li>- Impacts of epidemics and pandemics on humans</li></ul>
Energy: Particles and Waves <b>15%</b>	Types and effects of electromagnetic radiation
	Light <ul style="list-style-type: none"><li>- Properties</li><li>- Behaviours</li><li>- Ways of sensing</li></ul>
Earth Science: Plate Tectonics <b>25%</b>	Plate tectonic movement
	Major geological events of local significance
	First People's knowledge of: <ul style="list-style-type: none"><li>- Local geological formations</li><li>- Significant local geological events</li></ul>
	Layers of Earth