



## SCIENCE 10 COURSE OUTLINE

Welcome to Science 10! As a class we will explore different units of science including Physics, Chemistry,

Biology, and Earth and Space Science.



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### Teacher Information:

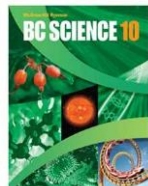
Textbook: BC Science 10

Ms. Sull

Room: B210

Email: [sull\\_j@surreyschools.ca](mailto:sull_j@surreyschools.ca)

(you may also message on TEAMS)



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**EXPECTATIONS** to ensure that you obtain maximum benefit from this course, the following standards are expected from each student:

- Regular attendance.
- Arrive to class on time & prepared to work.
- Report to class with all necessary books and supplies.
- Complete each assignment to the best of your ability.
- Submit assignments on time.
- Always exhibit responsible, cooperative, and respectable behavior.
- Come to class with a positive and mature attitude and be prepared to work hard!

**CELL PHONE POLICY:** Cellphones are a powerful tool: the entire internet is at your fingertips! I do not mind students having phones in class. Unless otherwise instructed, please refrain from using your phones when in class, as having a phone out in class can be a distraction to your learning, disruptive for students around you, and disrespectful to your teacher.

**Repeated offences occur, contact will be made home and/or admin notified.**

**Exceptions:** Phones may be used as cameras to document observations during specialized activities or assignment work. May be used when instructed by teacher for Kahoot quiz.

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**ASSESSMENT:**

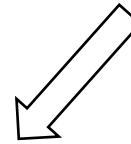
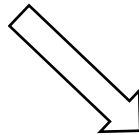
**FORMATIVE ASSESSMENT**

- Students will receive descriptive feedback that has no letter grade or numerical value attached.
- The purpose of this type of assessment is to help students identify strengths, and target areas that need work.

**SUMMATIVE ASSESSMENT**

- Students will receive feedback that has a letter grade/numerical value attached.
- The purpose of this type of assessment is to determine a students' level of achievement in relation to learning standards.

**The Purpose is TO INCREASE QUALITY**



**The Purpose is TO JUDGE QUALITY**

**SOME POSSIBLE ASSESSMENT TOOLS**

- Written/oral feedback
- Projects/presentations
- Labs/assignments

**GRADES** will be updated as soon as possible following tests, quizzes, assignments, etc.

EMERGING	DEVELOPING	PROFICIENT	EXTENDING
Student demonstrates an <i>initial</i> understanding of the concepts and competencies relevant to expected learning	Student demonstrates a <i>partial</i> understanding of the concepts and competencies relevant to the expected learning	Student demonstrates a <i>complete</i> understanding of the concepts and competencies relevant to the expected learning	Student demonstrates a <i>sophisticated</i> understanding of the concepts and competencies relevant to the expected learning
Letter Grade C- 50%-59%	Letter Grade C 60%-66%	Letter Grade B 73%-85%	Letter Grade A 86%-100%
	Letter Grade C+ 67%-72%		

**QUIZZES:** You will always be informed of a quiz in advance. There will be several quizzes per unit (depending on the length of the unit). If you miss a quiz you are expected to write it upon return to class.

**TESTS:** Are written at the completion of each unit and you are always given at least 1 week notice. Be responsible and prepare for tests! Begin studying multiple days in advance. You will often be given class

time to review-pending the pace of the course. If a test is not written due to an absence, a note from home is required and you will write the test on your first day back at school.

**CORRECTIONS:** You are provided with the opportunity to do quiz corrections. Corrections on quizzes will be awarded +1/2 mark each & are to be submitted neatly on a separate page. **Corrections must be completed on a separate page, original questions written out in pen in full, and the correct answer all in pencil.**

**RE-TESTS:** I understand the pressure of tests & your desire to do well! Sometimes we don't do as well as we had hoped. That's why you are allowed 1 re-test during the semester. Students will need to complete a re-test checklist and sign-up for a particular re-test in advance, which will be given in class on a day specified by your teacher only.

Study hard & prepare appropriately for the re-test! Depending on how well you do, the best score will be kept for your mark.

*A reminder, re-tests are to save you when you "had a bad day", they are not a back-up plan when you didn't appropriately prepare for a test.*

**HOMEWORK:** Assignments will be given daily and will be checked for completion when specified by your teacher.

**LABS:** Experiments will be done as fitting with course content. Lab write-ups will be self evaluated using a rubric before handing in. Lab write-ups must be handed in before marked labs are handed back (approx. 1 week). After this time, the lab will not be accepted as other students now have their marked labs returned. There will be a focus on helping you become confident in the science lab and competent at writing properly formatted write-ups.

**WORK HABITS:** This will be assessed based on your preparation, attendance, assignment completion, participation, and conduct in class. "Good", "Satisfactory" or "Needs Improvement" will be assigned.

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**ABSENCES:** It is your responsibility to find out what you missed (check TEAMS) and take proper steps to catch up! Please check TEAMS for notes and assignments. Alternatively, you may check the MISSED WORK Binder with previous day notes and assignments located in the class. If you miss classes leading to a quiz or test, you are still required to write the assessment on that day, unless you have directly spoken to me (or emailed me) and we have arranged for another day to write the assessment.

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**SUPPLIES:** (It is expected that students will bring the following items to ALL classes):



- Pens (multiple colours)
- Pencils
- Eraser
- Metric ruler
- Scientific calculator
- 3 ring binder with lined paper AND graph paper
- Dividers (4 minimum)

**LEAVING THE CLASSROOM:** Everyone needs to leave class at some point. Ask first before leaving, write your name and time on the board, and be back to class ASAP. Please do not abuse the privilege.

**PLAGIARISM/CHEATING:** Just don't do it. You'll be caught. All work – assignments, projects, homework, etc. – must all be your own, and must be original. No copying from others. And yes, using your own work from previous projects or classes counts as cheating!



## SCIENCE 10 LEARNING OUTCOMES

In this course you will learn about and are expected to know the following big ideas:

**1. DNA is the basis for the diversity of living things.**

- DNA structure & function
- Patterns of inheritance
- Mechanisms for diversity
  - Mutations
  - Natural selection
  - Artificial selection
- Applied genetics



**2. Energy change is required as atoms rearrange in chemical processes.**

- Rearrangement of atoms in chemical reactions
- Acid-base chemistry
- Law of conservation of mass
- energy change during chemical reactions
- Practical applications and implications of chemical processes



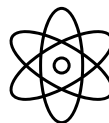
**3. Energy is conserved, and its transformation can affect living things and the environment.**

- Law of conservation of energy
- Potential and kinetic energy
- Transformation of energy
- Local and global impacts of energy transformations from technologies



**4. The formation of the universe can be explained by the big bang theory.**

- Formation of the universe:
  - big bang theory
  - components of the universe over time
- Astronomical data and collection methods



**3 helpful tips for success in science 10:**

## SCIENCE 10

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Work hard. If you listen, try your best in class, and complete your homework daily, your chances of success greatly increase. If you have a problem, suggestion, or you believe there has been a mistake, come speak to me privately and in a mature manner.

2. Be responsible for your work and preparation. Be aware of what is going on in the class with assignments, quizzes, tests, and the respective due dates. You know test dates a well in advance. If you are having trouble, seek extra help. If absent, get caught up ASAP!

3. I am here to teach you & support you. If you are struggling with content or facing anxiety, please do not hesitate to come speak to me...I am a human, I am approachable, and I will do everything I can to help.

Have a wonderful semester ahead! Good Luck! 