



Environmental Science 11/12

Teacher: Mrs. Sullivan

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Phone: 604-595-8890 **Room:** B204

Overview:

Environmental Science 11/12 deals with the environment in which we live in and our interactions with it. It is a new and upcoming field of Science, which can lead to various careers in green energy development, engineering, ecology and more...

Topics we are going to learn are:

1. Lab safety, skills, experimental design and scientific method
2. Relationships in ecosystems and levels of organization in ecosystems
3. Natural processes which maintain and/or change ecosystems
4. Human's interactions with ecosystems and our affects on them
5. Human's role in maintaining healthy ecosystem and sustainable land use
6. Human actions affect the quality of water and its ability to sustain life
7. Human activities cause changes in the global climate system
8. Living sustainably supports the well being of self, community and Earth

We will be exploring some of following BIG IDEAS in this class:

Big Idea 1: Earth Systems & Resources

- Water Resources - Soil & Soil Dynamics - Environmental Systems
- Geology - The Atmosphere

Big Idea 2: The Living World

- Natural Ecosystem Change - Biogeochemical Cycles - Ecosystem Ecology
- Energy Flow in Ecosystems - Ecosystem Diversity

Big Idea 3: Population

- Human Population Size - Human Population Impacts - Population Ecology

Big Idea 4: Land & Water Use

- Mining - Fishing - Environmental Economics - Agriculture - Forestry Rangelands - Land Use

Big Idea 5: Energy Resources & Consumption

- Hydroelectric Power - Energy Reduction - Renewable Energy - Energy Concepts
- Energy Consumption - Fossil Fuel Resources - Nuclear Energy

Big Idea 6: Pollution

- Solid Waste - Health Impacts of Pollution - Air Pollution - Water Pollution

Big Idea 7: Global Change

- Loss of Biodiversity - Stratospheric Ozone - Global Climate Change

Marks and Grades:

Your overall course mark will consist of formative and summative assessments to determine an overall grade at the end of the term. The term will be marked on a rubric with the following guidelines.

Does not meet expectation	Meets only a few expectations	Meets expectations	Meets some of the expectations	Fully meets expectations	Exceptional work that goes beyond expectations
Incomplete/Fail	C- 50% - 59%	C 60-65%	C+ 66% -72%	B 73% - 85%	A 86%-100%

Overall Course Evaluation:

A) General Breakdown of Class Mark (80%)

Tests	15%
Assignments	25%
Quizzes	10%
Projects/Labs	30%

**** Marks in this course are
CUMULATIVE



B) Final Assessment (20%)

We will focus more and more on the curricular and core competencies and less on content, although the content will still be a part of your mark.

Curricular Competencies: Skills that will be developed throughout the course

- Question & Predict
- Plan & Conduct Experiments
- Process & Analyze Data and Information
- Evaluate: self, others, data, experiments
- Apply & Innovate
- Communicate



Course Evaluation:

Formative Assessment refers to a **wide variety** of methods that teachers and students use to conduct in-process evaluations of student comprehension, learning needs, and academic progress during a lesson, unit, or course. **Ensures the student is aware of where they are in their learning, how to progress in their learning, so that students are responsible for their learning.**

Examples:

- Self-assessments/
Rubrics
- Feedback on
assignments,
quizzes, or tests
- Analyzing mistakes
on assignments,
quizzes, tests
- Oral or written
feedback
- Interactive
Notebooks
on what is being
learned
- Labs/Activities

Summative Assessment: used to evaluate student learning, skill acquisition, and academic achievement at the conclusion of a defined instructional period — typically at the end of a project, unit, course, semester, program, or school year.

Examples:

- Tests/ Quizzes
- Assignments
- Labs (or lab tests)
- Projects
- Presentations
- Final Exams

'G', 'S' or 'N' work habits:

Work habits will be assessed based on: preparation, attendance, assignment completion, participation in class, tardiness, and conduct in class. "Good", "Satisfactory" or "Needs Improvement" comments will be used.

If your child is **AWAY**, please....

send me an **E-MAIL** ASAP!! (Students are also required to email me asap to avoid falling behind).



Thank you!!

*Some lesson materials and all important dates will be posted on **Microsoft Teams**. **Please check this daily**. If students are absent, it is their responsibility to check Microsoft Teams and catch up on any missed work before returning to class. I expect to see students have attempted the missed lesson upon their return.

Test Writing and Handing in Assignments:

It is my belief that the students are not only expected to learn the course content but practice and continue to develop social responsibility as well.

Meeting personal commitments like assignment and test due dates, and completing homework are a few examples of such responsibility. Consequently, students need to understand that if we are to maintain a productive, supportive and respectful learning environment for all students, this environment must be supported by students, teachers and parents alike.

TEST POLICY:

All students are expected to write tests on the scheduled date and time.

In the event of an unanticipated absence, DIRECT communication with the teacher, PRIOR to the test is expected:

via email (sullivan_ashlee@surreyschools.ca).

Any scheduled tests that cause a conflict with other appointments, should be rescheduled with the teacher PRIOR TO THE TEST date.

Students will have many opportunities to get feed-back and check understanding prior to writing any test. Verbal questions during the lessons, vocabulary review, homework and quizzes are different ways that students will have an opportunity to check their understanding of the concepts taught in each unit. Furthermore, the Final Assessment at the end of the course will give one final chance for students to show how much they have learned in the course. Test and assignment dates will always be announced on **Microsoft Teams** so that students will have time to adequately prepare.

Missed tests and quizzes: Unless a date to write missed tests and quizzes has been agreed upon by myself and the student, students who miss a test will be expected to make it up the day they return. The same applies for quizzes. If the absences are **not excused**, students will write the tests/quizzes at the end of the semester during review days.

Classroom Rules and Policies:

** As per COVID Guidelines, students should always carry a mask on them for when moving between classes and in the hallways. Students should also be washing their hands and using hand sanitizer often, especially entering/leaving classroom, before and after touching shared equipment and materials. These guidelines and protocols are in place to keep students and staff as safe as possible.

Here are some important tips:

1. Students are expected to be respectful to teachers and other peers
2. **Be in class and be on time** - This will be a difficult course to learn if you are away.
3. **Complete all work** – If you don't do the work, you won't become good at it
4. **Hand in all your work on time**. If an assignment has been returned, marked you have lost the opportunity for those marks.
5. Maintain a minimum **standard of neatness and completeness** – There is a minimum standard for acceptable work.
6. Keep your binders neat and **organized as this will make their learning process easier**.
7. **Practice, Study** a little every day.
8. **ASK QUESTIONS AND COME FOR HELP IF YOU NEED IT!** Only YOU are responsible for you, your teacher is there to help you.
9. As per WCB policy - no food or drink is allowed in the science lab. This includes gum.
10. You may only use your cellphone when instructed to do so. All electronics are put away during instructional time. You are responsible for notes and assignments on missed classes.

Parents:

I just wanted to take this opportunity to introduce myself, let you know of the online tools available to the class, and to find out a little more about each student to provide them with the best possible learning experience.

Please do not hesitate to reach me via email if you have any questions/concerns/comments. *You can find my contact information at the bottom of this page; please detach and keep for your reference.*

Also, I ask that you please fill in a current email address in which I could reach you as this is the fastest way to be in contact with you.

Microsoft Teams

This website allows students to sign in to our private, online classroom community. Once logged in, students can answer posted questions to complete their homework assignments, download documents from class, see due dates, and receive reminders and alerts of upcoming events. This is a private TEAM and students from this class will only be added and have access to the site.

This online component helps to educate students in the safe and responsible use of technology and online environments, and I'm excited to have the chance to integrate it into the course work!

If you would like to see what we are doing in our class community and know of upcoming dates for tests and assignment deadlines – ask your student for their log-in if you need it.

I HAVE READ THE COURSE OUTLINE AND DISCUSSED IT WITH THE STUDENT.

THE STUDENT HAS MY PERMISSION TO PARTICIPATE IN MICROSOFT TEAMS.

Student's Name: _____

Student's Signature: _____

Parent's Name: _____

PARENT / GUARDIAN SIGNATURE: _____

Parent/Guardian email (optional): _____

Please detach and keep for your reference:

ENVIRONMENTAL SCIENCE 11/12

Teacher: Mrs. Sullivan

Extra Help from Mrs. Sullivan:

Email:

In person:

sullivan_ashlee@surreyschools.ca

During class time or by appointment only