September, 2020

Dear Parent/Guardian:

This letter is intended for parents or guardians of students enrolled in Science 10, or Chemistry 11.

Please review the attached learning plan for August-December.  If you have any questions or concerns, please contact me.

When students are not in school, at home learning (e-learning) will take place.  Please keep in mind:

 -E-learning is worth **40%** of the final grade...1 point/assignment.

 -**Daily** assignments will be posted to Google Classroom at 9AM.These assignments will be due by 3PM...late assignments will not be accepted.

During e-learning, I will be available to help students online between 9AM-12PM.  Students may request a video meeting (Meet) during this time.

Please feel free to let me know if there is anything else you need.  Take care.

Sincerely,

Vince Budge

vince@wagmatcookeweyschool.ca

(902) 217-3303 (School)

**WAGMATCOOKEWEY SCHOOL**

**LONG RANGE PLAN:  SCIENCE 10, CHEMISTRY 11A&B**

**September 2020 - January 2021**

**Teacher:** Vince Budge

**Telephone:  (**902) 295-3491

**E-mail:** vince@wagmatcookeweyschool.ca or vincebudge@gmail.com

**Student Responsibilities**

**IMPORTANT INFORMATION FOR PARENTS AND GUARDIANS OF**

**WAGMATCOOKEWEY SCHOOL STUDENTS**

**FOR THE 2020-2021 SCHOOL YEAR**

**JUNE 25, 2020**

* **For 20-21 students will be required to complete assigned work in-school and at home and meet program or grade level outcomes.**
* **Students will not advance automatically to the next grade level if program or course outcomes are not achieved in 20-21.**

The modified schooling plan will include a 50% in-school program, and a 50% at-home learning plan

Kits containing materials to be used at home when students are not in school will be sent out during the first week of school.

The teacher will be available for interaction for the purpose of instruction with students during regular school hours on at-home learning days.

A variety of tools (G Suite for Education, Screencastify, etc.) will be used to engage students during online learning.

Attendance for online learning will be monitored based on daily submission of assignments, and participation in online activities.

**CHEMISTRY 11A**

Chemistry 11A is a direct continuation of the basic concepts presented in Science 10.

\*Students enrolled in Chemistry 11A should have successfully completed Science 10 and Academic Math 10.

Units of Study will include:

1. **Structures & Properties (30%) September - October**:  Review of atomic structure and the periodic table, chemical reactions and the nature of bonding.
2. **Stoichiometry (40%) October - November**:  An introduction into the quantitative (mathematical) side of chemistry.
3. **Organic Chemistry (30%) December - January**:  A brief study of the molecular compounds of Carbon.

**CHEMISTRY 11B**

Chemistry 11B is a combination of concepts not covered in Science 10 due to the COVID-19 pandemic (March - June, 2020) and Chemistry 11A.

Units of Study will include:

1. **Chemical Reactions (40%) September - October**:  An introduction to chemical reactions, formula writing, and STSE connections (Science Technology Science Environment).
2. **Structures & Properties (60%) November - January**:  Review of atomic structure and the periodic table, chemical reactions and the nature of bonding.

\*The Stoichiometry and Organic Chemistry units will not be covered because not all Academic Math 10 outcomes were achieved due to the COVID-19 pandemic (March - June, 2020).

**SCIENCE 10**

Science 10 meets the requirements of a first science credit towards graduation. It is strongly recommended that all students take Science 10 prior to more specialized study in science(s) in grades 11 and 12.

Units of Study will include:

1. Chemical Science: Chemical Reactions **(25%) September - October**:  • Investigating Chemical Reactions • Formula Writing • Chemical Reactions • Science, Technology, Social, and the Environment (STSE) Connections
2. Physical Science: Motion **(25%) October - November**:  Position, Distance, Displacement • Graphs of Speed and Velocity • Motion: Graphs and Formulas • Research in Science and Technology
3. Life Science: Sustainability of Ecosystems **(25%) November - December**:   • Sustainability • Sustainability of an Ecosystem
4. Earth and Space Science: Weather Dynamics **(25%) December - January**:  Observations and Measurements • Water’s Role in Our World • Energy Transfer • Weather Forecasting

**Student Assessment**

Prior to COVID-19, learning assessment had been dependent on students' physical presence for observing the learners' daily progress.  Current school conditions necessitate development of alternative approaches to assessment.

Learning needs to take place outside of the classroom, and teachers and parents need to understand whether students comprehend the content that is delivered to them.  Various [resources](https://en.unesco.org/themes/education-emergencies/coronavirus-school-closures/solutions) can be used by teachers and parents to support [formative assessment](https://www.nwea.org/blog/2019/75-digital-tools-apps-teachers-use-to-support-classroom-formative-assessment/) in the context of COVID-19.

Formative assessment will be administered where the teacher and the student work together at the same time (via online platforms like Google Meet).  Teachers can provide feedback to students in real time.  Teachers can also provide feedback to students through emailed instructions and tasks.

Online tools such as [Google Classrooms](https://www.thetechedvocate.org/teacher-time-savers-for-google-classroom/) will be used to provide feedback to students through questions, tasks, activities, and quizzes. Various online applications such as Screencastify may be used to record performance tasks created by students and shared with teachers.

Parents will also need to communicate the results of formative assessment to teachers.  Email, and direct phone calls between teachers and parents will also be used.

**Assessment**

\*Scenario 1:  Blended Learning (50% in school and 50% at-home learning)

|  |  |
| --- | --- |
|   | Percentage of Final Mark |
| Classroom Attendance | 15% |
| Class Mark | 5% |
| Tests/Assignments | 15% |
| Final Exam | 25% |
| Daily At-Home Learning Assignments | 40% |
|   |   |
| TOTAL | 100 points |