

Mr. Hazlewood

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Grade 10 Science 2020

Science 20F – Course Outline

Credit Value: 1 Credit

Course Code: 0120

Prerequisites: None

Required Materials: Binder, paper, pen, calculator

Textbook: Ritter, B et. al. (2001). *Science 10*. Nelson Thomson Learning.
Scarborough, Ontario.

Tidbits of wisdom from the world of science...

“The most exciting phrase in science is not “Eureka, I’ve found it!”, but rather “Hmm, that’s not supposed to happen”.

- *Isaac Asimov*

“The goal of science and engineering is to build better mousetraps. The goal of nature is to build better mice”

- *Author Unknown*

Course Description

Grade 10 science covers a wide variety of scientific topics from each of the major science disciplines. There are sections on ecosystems and animal diversity, chemistry and chemical applications, physics and motion, and weather. The course is designed to continue building upon the idea of the scientific process, as well as to help foster the practice of scientific inquiry.

Through various research, presentation, and practical assignments, students will develop a better understanding of the world around them through the scientific lens. The goal of the course is to develop student’s basic understanding of scientific principles, while fostering an interest in further studies.

Course Timeline

Feb. 4 – Mar. 10 – Chemistry In Action (Assessment Mar. 12)

**Period Table*

**Balancing Equations*

**Classifying Reactions*

Mar. 11 – Apr. 22 – In Motion (Assessment Apr. 23)

**Graphing Motion*

**Problem Solving*

**Forces of Motion*

Apr. 24 – May 21 - Weather (Assessment May 22)

**Climate*

**Storm Formation*

**Climate Change*

May 26 – June 15 – Ecology (Assessment June 17)

**Food webs and ecosystems*

**Population Dynamics*

Assessment – curriculum available at <https://www.edu.gov.mb.ca/k12/cur/index.html>
Course Work (70%) – Each topic will have multiple formative assessments to help students recognize areas of strength and areas to continue to improve on. We will also complete a performance assessment in most of the topics, some of which will be marked using a rubric, while others are used as formative feedback. There will also be at least one summative assessment in each topic that will be weighted based on the amount of time spent on that section. Larger sections that the class finds interesting will have larger assessments worth a greater percentage of the course mark. Final mark will be a percentage grade.

Each student will also complete an inquiry project that will be marked using a class constructed rubric, which will be worth approximately 10% of this course mark.

Final Exam (30%) – The final exam is cumulative, and will focus on material covered on various topic assessments. There will also be questions regarding the performance assessments as well as the inquiry project.

Academic Dishonesty – any act of cheating, plagiarizing, or copying of work by a student will result in stiff penalties. The first offense will be a choice of zero on the assignment or a redo at my convenience, as well as a letter sent home to your parents. The second offense will be an automatic zero, with a referral to administration for any further discipline.

Late Assignments – There are no assignments in this course. Performance assessments and inquiry projects are due on or before the date set. Other than medical emergencies and prior arrangements, failure to do so will result in a grade of 0.

Missed Assessments & Rewrites – Any missed assessment will be given a grade of 0 unless valid reasons are given (eg. hospitalization). A student who misses an assessment will be required to complete it during the lunch hour (or spare) **on the day they return to school**. Assessments can be rewritten upon the request of the student, but will only be granted after that student has earned the opportunity. This requires attendance at lunch (or spare) for extra help and practice, as well as multiple formative assessments in order to demonstrate sufficient understanding.

Attendance – Please attend class. If you miss a class it is your responsibility to catch up on missed work. If you need extra help I am available most lunch hours upon request. Missing 10 classes will result in a meeting with parents and principal to determine status in the course.

Technology – Cell phones are only to be used in class when instructed to do so. All students will be required to hand in phones at the beginning of each class.

Class Expectations – Be on time for class, with all required materials. Be involved in class discussions and complete all assigned work. Ask for extra help when needed or when missing class.