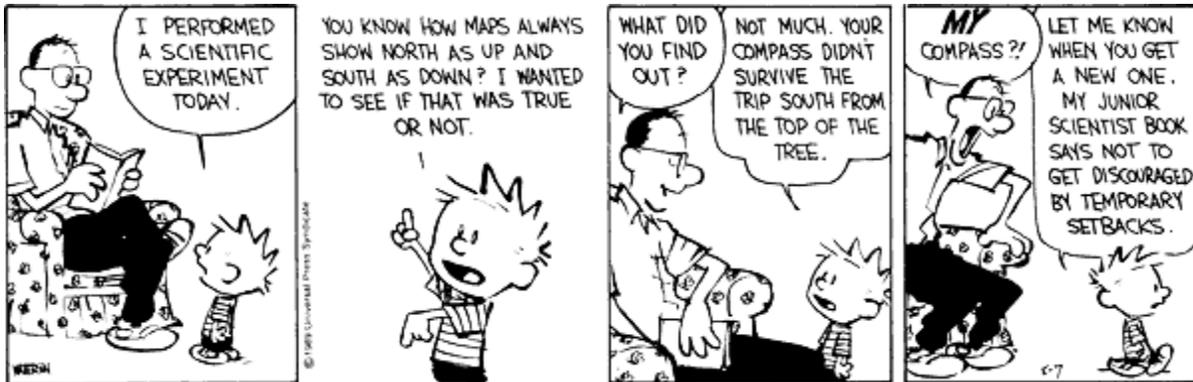


**George McDougall High School**

**SCIENCE 20**

**Course Outline 2017**

**Instructor: Mr. Masse/ Mrs. Abbott**



## WELCOME TO SCIENCE 20!

*“The most incomprehensible thing about the universe is that it is comprehensible.” – Albert Einstein*

### **Program Rationale and Philosophy**

To become scientifically literate, students need to develop knowledge of science and its relationship to technologies and society. They also need to develop the broad-based skills required to identify and analyze problems; to explore and test solutions; and to seek, interpret and evaluate information. To ensure relevance to students as well as to societal needs, a science program must present science in a meaningful context—providing opportunities for students to explore the process of science, its applications and implications, and to examine related technological problems and issues. By doing so, students become aware of the role of science in responding to social and cultural change and in meeting needs for a sustainable environment, economy and society (Alberta Ed., 2006).

### **Science 20 consists of four units of study:**

#### **Unit A – Chemical Changes**

- i) Aqueous solutions
- ii) Oxidation/reduction of metals
- iii) Organic chemistry

#### **Unit B – Changes in Motion**

- i) Describing motion
- ii) Collisions

#### **Unit C – The Changing Earth**

- i) Abyss of time
- ii) Tropical Alberta
- iii) Changing climates

#### **Unit D – Changes in Living Systems**

- i) Biosphere of life
- ii) Changing populations

Text: *Science 20*, 2006 published by Alberta Education.

### **Course Evaluation**

You will be evaluated in the following manner:

#### ***Emphasis***

<b><i>Assignments and Labs</i></b> .....	<b>30%</b>
<b><i>Unit Exams and Quizzes (1 exam per unit)</i></b> .....	<b>40%</b>
<b><i>Final Exam</i></b> .....	<b>30%</b>

## RULES AND EXPECTATIONS

1. Everyone has a right to be heard, as long as he or she is not infringing upon the rights of others.
  - *Only one person talks at a time.*
  - *No foul language will be tolerated.*
  - *Raise your hand to ask or answer a question.*
2. Everyone's opinion is valid and must be respected.
  - *No put-downs will be tolerated.*
  - *Treat others as you would like to be treated.*
  - *There is no such thing as a "dumb question".*
3. Education is a privilege, not a right. The facilities, instructor, and your fellow learners must be given the proper respect to enjoy the privilege of learning. The following class rules will be followed.
  - *No hats allowed in class.*
  - *Please don't bring food into the lab. Water is fine as long as it is in a container with a lid.*
  - *No vandalism of books, desks, equipment, or other materials.*
  - *Come to class with all materials necessary to work in class (i.e. books, paper, pencil, calculators, etc.).*
  - *Cell phones are not to be used in class. Please keep them in your locker or backpack.*
4. Students must realize that good attendance is *essential*, as a large portion of your mark will be from class work such as *lab work* and *assignments*.
5. The following assignment and exam policies *will be followed*.
  - *Homework **must** be done by the assigned date! Late assignments will not be accepted after the assignment has been marked.*
  - *All **unexcused** absences from exams or quizzes will count as a mark of zero.*
  - *Missed exams must be written on the **first** day back to school from an absence, barring extenuating circumstances. It is **your** responsibility to see me as soon as you return to arrange a time to write an exam.*
6. Students must assume responsibility for their actions.
  - *It is **your** duty to be prepared for exams. If you fail, the only person you hurt is yourself.*
  - *If you miss a class it is your responsibility to ask someone to borrow their notes and make-up any assignments or tests that you have missed.*
7. iPods, mp3 players, and other music devices will only be tolerated during work time; not during labs, lectures, visual presentations, or quizzes/tests. The volume must be kept at an appropriate level.
8. I will help students outside of class time so that they may achieve their potential. However, students must put in the effort *in class* to earn my time *out of class*.