**VCSS Scimatics 8**

**Instructor: Mr. Craigen School Yr: 2016-2017**

**Block: 5/6**

Welcome to Scimatics 8! I would like to take this opportunity to share my enthusiasm as we begin our year together! This course is exciting in the fact that we are combining Science and Math into one block that continues throughout both semesters. The intention is that this course be an enjoyable learning experience for all. I look forward to working with you in Scimatics 8 this year☺ Let’s have some fun!

**1. COURSE OBJECTIVES AND CONTENT**

* **What is Scimatics?** The goal of scimatics is to give students a chance to practice math skills everyday in a linear school year. By combining the two courses together, not only do students receive consistent re-enforcement of math skills on a regular basis, but it also allows the integration of math into scientific analysis whenever possible. *The link that connects math to science is crucial in developing an appreciation for the importance of math in our lives and the world around us.*

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| **MATH 8**Goal: To focus on **Curricular Competencies\*** of the Math curriculumthrough **5** **Big Ideas (B.I.)****B.I. #1 – Number Representation*** Represent, describe, and compare the quantities of ratios, rates and percents

**B.I. #2 – Computational Fluency and Flexibilty*** Calculations using all operations
* Fractions

**B.I.#3 – Discrete Linear Relationships*** Understanding what a relationship is and representing it in many connected ways
* Graphing

**B.I.#4 – 2D & 3D Objects*** Calculation of surface area and volume in order to describe, measure and compare spatial relationships

**B.I.#5 – Analyzing Data*** Determining averages to make sense of large data sets in order to compare and interpret

**\*Curriculum Competencies of Math 8*** Reason and Analyze
* Understand and Solve
* Communicate and Represent
* Connect and Reflect
 | **SCIENCE 8**Goal: To focus on the **Curricular Competencies** of the Science curriculum through **4 Big Ideas (B.I)****B.I. #1 - Biology*** Cell Theory

**B.I. #2 - Chemistry*** Kinetic Molecular Theory
* Atomic Theory

**B.I. #3 - Physics*** Wave Model
* Electromagnetic Spectrum
* Optics

**B.I. #4 - Earth Science*** Plate Tectonics
* Earth’s Geological Processes

**\*Curriculum Competencies of Science 8*** Questioning and Predicting
* Planning and Conducting
* Processing and Analyzing Data and Information
* Evaluating
* Applying and Innovating
* Communicating
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# 2. EVALUATION

This course is evaluated by standards-based grading. This means you have the opportunity to see your progress in each area of 9 Big Ideas of study above. This allows you to see exactly what your weaknesses are so you can focus your improvement to that specific area.

Your progress in this course will be demonstrated to me in the following ways:

* Assignments/Workbooks/Homework
* Formative Quizzes
* Major Assessments: Project/Test/Midterm/Exam
* Demonstrations of: Skills/Labs/Processes of Scimatics

# 3. MATERIALSYou need to bring these to class everyday!

* Math Workbook
* Science Workbook
* Three-ring binder with loose-leaf paper with dividers
* Pencil, eraser, ruler
* Scientific Calculator (**mandatory**)

# 4. COMMUNICATION

Communication between student, parent, and teacher is be *emphasized*. If you, or your parents have any questions, *please* contact me. The doors are always open before class, at lunch and after class if you have any questions. Please use our class website to keep track of the work that is required of you.

**Mr. Craigen's contact info:**

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| Phone: **667-5901**Email: **ben.craigen@yesnet.yk.ca**Website: **mrcraigen.weebly.com** Facebook: **MrCraigen MrCraigen** |

**Mr. Craigen’s Scimatics 8 Course Expectations**

I want you to succeed in this course! I have these expectations because they are habits and skills that will help **you** do the best that you can do.

**1. SHOW UP ON TIME**: If being late becomes a habit, we will personally discuss it.

**2. DO NOT MISS CLASSES**: If you know that you will be absent, make sure that you inform me beforehand. If you do miss a class it is **YOUR RESPONSIBILITY** to get any notes or assignments that you missed (get a study buddy).

Note: **YOU ARE EXPECTED TO COMPLETE EVERY ASSIGNMENT WHETHER YOU ARE HERE OR NOT!**

3. **LATE ASSIGNMENTS**: Assignments make up an important part of your grade. Assignments that are late will be accepted, and no penalty will be given if they are submitted before I have marked and handed them back. BUT once they have been returned to the class, submitted late assignments will be given a grade of 50% provided they are FULLY COMPLETED.

**4. BE A PURPOSEFUL LEARNER**: Stay on task and participate in class. Behave in a mature and cooperative way using class time effectively. Also, remember that it is your teacher who dismisses you, **not** the announcements or the bell.

5. **MATERIALS**: Be prepared and bring your supplies to class **EVERYDAY.**

6. **EXTRA HELP**: If you do not understand what we are doing, PLEASE ASK! I am not a big scary teacher! I really want to help you and **no question** is a bad question. The door is **always open!** If you are struggling, it is YOUR responsibility to ask for help. There are lots of options.

**7. CHEATING**: Strictly not allowed! This includes plagiarized work! The consequences of cheating may range from receiving a zero on assignments or tests to disciplinary action by the administration. **DON’T DO IT!**

**RULES OF THE CLASSROOM**

**\*REMEMBER**\* YOU HAVE THE RIGHT TO LEARN – AND SO DO OTHERS.

a) **NO CELLPHONES**! Leave them in your locker. Its like baseball:

 Strike I – I take it away. Your get it back at the end of class.

 Strike II – I take it away. You get it back from the office.

 Strike III – I take it away. Your parents have to come and pick it up from the office.

\*If you want to use your cellphone in class **you must** ask my permission before using it!

b) Think of the word **RESPECT**: to your peers, to your teacher, to yourself.

c) Hands up if you want to ask, or answer a question.

d) If the teacher is talking, you’re not.

e) Leave the classroom the way you found it (neat and tidy) and take **all** your personal effects with you

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**Assignment #1**: Take this home, review with your parents. If you think this is fair and you agree with it, please sign and return this form to Mr. Craigen.

**Scimatics 8**

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, have read and agree with the above course expectations.

Signature of student\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of parent/guardian:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of parent/guardian: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/guardian email (only used for direct contact)

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Daytime phone number:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_`

I prefer to be contacted by (circle one) phone email

☐ Please check this box if you would like to receive an email link to view your child’s gradebook on-line

And please remember to call or email if you child is going to be away!