COURSE DESCRIPTION
SCIENCE & TECHNOLOGY
2011-2012

COURSE NAME:	Science and Technology	**LEVEL:**	Cycle 1, Year 1
COURSE CODE:	555 – 100	**PERIODS PER CYCLE:**	5

HR	TEACHER	E-MAIL ADDRESS	Office
1A	Ms. Andrea Hawkins	hawkins.a@qaa.qc.ca	Chemistry Lab
1B	Mr. Matthew Myszak	myszak.m@qaa.qc.ca	Physics Lab

Subject Area Competencies:

1.	**The student seeks answers or solutions to scientific or technological problems** **The student communicates in appropriate language for science and technology**
40%	The student must use the scientific method or the design method to solve problems. Student expertise is expected to increase with each lab performed.
	The student must identify, and be able to restate in her own words, the questions asked of her in lab situations.
	The student must be able to write a clear, concise procedure using scientific vocabulary.
	The student must be able to carry out the procedure using correct techniques and as well as following all safety rules.
	The student must be able to form conclusions and inferences from the data collected during the experimental procedure. She should also be able to identify potential sources of error which may have affected the experiment's results.
	The student must create data tables and charts accurately. The student must communicate in all forms (oral and written) using appropriate scientific vocabulary and symbols.
Activity types in this competency: *-all activities related to the scientific method (labs, design projects)*	
2.	**The student makes the most of her knowledge of science and technology** **The student communicates in appropriate language for science and technology**
60%	The student must be able to analyze and form opinions on scientific issues.
	The student must be able to analyze a technical object.
	The student must be able to apply facts and theories to new situations or to answer questions.
	The student must communicate in all forms (oral and written) using appropriate scientific vocabulary and symbols.
Activity types in this competency: *- issue analysis (essays, orals, displays, etc.)* *- content-based tests* *- essay tests, case studies, etc.* *-analyses of technological objects*	

Tutorials

Tutoring will be held at lunch by your teacher on **DAY 6** in the Chemistry lab (Ms.H)/Physics Lab (Mr. M).

Science World Magazine:
In order to help boost your interest in science and to help you better understand and communicate in the language of science, you will each have your own subscription to ***Science World*** Magazine. Throughout the year, you will be doing various activities using articles from this magazine.

Absences:
If you have been absent, it is your responsibility to see your teacher to pick up any missed materials and instructions. If you miss a test, you will write it at lunchtime on the first Tuesday or Thursday of your return to school. Please confirm this with your teacher. You should also pair up with a classmate and then whenever one of you is absent, the other will collect all the worked missed that day.

My buddy is _____ Phone # _____ email _____

First Class Server:
You will be required to access the "Sec 1 Science" folder found on the First Class Server regularly. In this folder, you will find handouts, study guides, homework and much more. Please download First Class to your home computer ASAP. If you do not have a computer at home, you may go to the library or computer lab before school, at lunch or after school to access the folder.

Course Materials:
- One 2" binder
- 5 binder dividers
- 3 ring binder protective pockets
- Loose leaf paper
- Calculator
- Pencil, eraser, pen, ruler, highlighter, 8 colour pencils, glue stick and scissors
- Memory stick (2G)

Course Outline:

Term	Units	Projected Activities for Evaluation		Competencies	
				1	2
Term 1 (20%)	**Unit 2: Water, the Source of Life**	• Family's Water-Use Habits • Tasting Water • A matter of State • pH Scale • Your Own Ecosystem • My Food Chain Do You Have the Right Tool? • Animal Adaptations	• Marsh Story • Collecting Rainwater • Creating a filter • Water – It's Child's Play • Tests & Quizzes	✓	✓
Term 2 (20%)	**Unit 3: Warning! Major Changes Ahead**	• Building a Greenhouse • Microscope lab • What will eat in the future? • My Endangered Animal • Animal Cells • Rescue Plan for Endangered Animal	• Awareness Campaign • A Dust Catcher • Air Pollution • Tests & Quizzes • **Christmas Exam**	✓	✓
Term 3 (60%)	**Unit 4: My Planet: Its Resources and its Limits**	• The Best Soil for Waste • The Eco-Ad • Energy Transformation • Wind-turbine or Water-turbine	• Building My Dream Home • Using resources to build a toy/musical instrument • Tests & Quizzes	✓	✓
	Unit 1: The Master Clock of the Universe	• Solar System Project • Scaling Down the Solar System • The Expanding Universe • The Universe as a Comic Book	• An Endless Conveyor Belt • Brand-New Rock • Building a Sundial • Tests & Quizzes • **JUNE EXAM**	✓	✓