Name:	Block:

Science for Citizens 11 Course Outline:

Mr. Barron

Three Big Ideas

Scientific processes and knowledge inform our decisions and impact our daily lives.

Personal/Home Science

- health science:
 - nutrition and lifestyle
 - allergies and sensitivities
 - medications and supplements
 - non-Western health practices, including First Peoples health and healing practices
- safe use and storage of household chemicals
- home technologies:
 - home automation and safety alarms
 - home appliances
 - home electrics
- science literacy and informed decision making: pseudo-science versus science

Scientific knowledge can be used to develop procedures, techniques, and technologies that have implications for places of employment.

Local/Workplace Science

- · waste recycling and disposal:
 - industrial and workplace
 - recycling processes
 - transfer stations and landfills
 - impacts of personal choices
- chemicals commonly found in the workplace or in industrial products:
 - chemical safety, including disposal methods
 - current WHMIS and other standards
 - components of mixtures
 - classes of hazardous chemicals
- combustive and explosive materials:
 - combustible mixtures
 - explosive potential
 - safety
- forensic science:
 - methodologies and technologies
 - forensic techniques and protocols
 - impact of advances in technology

Scientific understanding enables humans to respond and adapt to changes locally and globally.

Global Science

- · extreme weather events:
 - causes and impacts
 - weather and climate change
- · disaster preparedness:
 - natural and human-influenced events
 - survival needs
- · agriculture practices and processes:
 - chemicals used in agriculture
 - environmental impacts
 - impacts of personal choices
- energy generation and needs:
 - production
 - economics
 - environmental impacts
- · sustainability of resources:
 - impacts of personal choices
 - First Peoples worldview and sustainability
 - product life cycles

Science Mod	cience Module Technology Module		
Agriculture -	Elements of agricultural systems, Role of genetics, different methods of food production, changing technology in agriculture	Computers – And Communication	Basic computer components, impact of science on development of computers, Evaluate impact of computers on society
Chemistry -	Chemicals in household products, Disposal methods, synthesize a household product	Home and - Technology	Structural integrity of shelters, types of indigenous shelters, Role of building codes, current home technologies and impact on family life
Forensics -	Methods and technologies used to investigate a crime scene, collect evidence using forensic methods	Personal - Technologies	Investigate personal technologies used regularly, Relate pre-existing technology
Health -	Medical technologies in addressing different illnesses, role of science in development of medical technologies	Space - Exploration	Recent contributions to development of space exploration, spin-offs, future trends in technology
Natural - Resources And Environment	Major natural resources in BC, impact of society on natural resource management, impact of technologies on the environment	Transportation	- role of transportation in society Describe a transportation system, features incorporated into types of transportation

Note: The Science and Technology 11 outline is subject to change to accommodate the instructional time available. Optional topics may be included if time allows.

Evaluation:							
		<u>Letter Grades:</u>					
		A = excellent	86 - 100%				
		B = very good	73 - 85%				
		C+ = good	67 - 72%				
<u>Term Marks:</u>		C = satisfactory	60 - 66%				
Title Page	4%	C- = minimally acceptable	50 - 59%				
Science Module 1	16%	F = failing	0 - 49%				
Science Module 2	16%						
Science Module 3	16%						
Technology Module 1	16%						
Technology Module 2	16%						
Technology Module 3	16%						