

Course Outline

Course: Exploring Technologies				
Grade: 9	Туре: О	Credit Value: 1 Credit hours: 110	Course code:TIJ1O Dept: Technology	
Teacher: J.F> Michaud		Development date:	Development date: Jan. 2021	
Course Reviser: J.F. Michaud Date: June 2021		Prerequisites: none	e	
Text book: none re	ed: electronic device with quired purces: All resources are		vided in course materials	
Schools-2010 - Learning for All – A of Students, Kindergart - Environmental Educ - Course Descriptions - Equity and Inclusive Development and In - Financial Literacy: So - First Nations, Métis, Expectations, 2016	cope and Sequence of Expe and Inuit Connections – So cope and Sequence of Expe	ent and Instruction for All of Expectations, 2017 9 to 12, 2018 ols: Guidelines for Policy ectations, Grades 9-12, 201 cope and Sequence of		
Overall Expectat				
By the end of this cou This course enables s				

introduced in the elementary science and technology program. Students will be given the opportunity to design and create products and/or provide services related to the various technological areas or industries, working with a variety of tools, equipment, and software commonly used in industry. Students will develop an awareness of environmental and societal issues, and will begin to explore secondary and postsecondary education and training pathways leading to careers in technology-related fields.



	for Learning (UDL),				
Teachers use a v following teachin Teacher will utilize i and is precisely tailo	ig strategies will k nstruction that both	g strategies be used in the responds to t rengths and n	n is course: he characteristics of eeds of each studer	dent learning. The f a diverse group of studen nt can be achieved using th	
Level 1 50-59%	Level 2 60	-69% L	evel 3 70-79%.	Level 80-100%	
Achievement le					
Exam	30%				
Tests	23%				
Assignments Quizzes	22% 15%				
		e course wi	Il account for the	following percentages	
Application		30%			
Communication		20%			
Knowledge and Thinking	Understanding	30% 20%			
The term work and	d Exam will be brol	ken down in f	the following skill (Categories:	
Final Evaluation: 3	•		grade		
Mark breakdow	n ighout the course:	70% of final	orade		
	vill be posted onlin rrent marks throu	•		ents can see student are.	
Culminating Activity Hours: 6					
Unit: 3 Technology, the Environment and societyHours: 20Unit: 4 Professional Practice and Career OpportunitiesHours: 8					
Unit: 1 Technology Fundamentals Unit: 2 Technological skills				ours:46	
Init: 1 Tachnal	ay Eurodomontal		L	ours:30	

2) differentiated instruction, and



3) the tiered approach to prevention and intervention. (Learning for All, Kindergarten to Grade 12: For more info please see

http://www.edu.gov.on.ca/eng/general/elemsec/speced/LearningforAll2013.pdf)

What are UDL-aligned strategies? https://goalbookapp.com/toolkit/strategies

• UDL-aligned strategies are instructional methods and tools used by teachers to ensure that ALL students have an equal opportunity to learn. All of our strategies are aligned with Universal Design for Learning (UDL) guidelines. These guidelines help you to select strategies that remove barriers in instruction so that all students can achieve their learning goals.

• Differentiated Instruction is based on the idea that because students differ significantly in their interests, learning styles, and readiness to learn, it is necessary to adapt instruction to suit these differing characteristics. Teachers can differentiate one or a number of the following elements in any classroom learning situation (Tomlinson, 2004): the content of learning (what students are going to learn, and when); the process of learning (the types of tasks and activities); the products of learning (the ways in which students demonstrate learning); the affect/environment of learning (the context and environment in which students learn and demonstrate learning). (http://edugains.ca/newsite/di/index.html)

Teaching and learning strategies adopted should be appropriate to the course type and should reflect an appropriate balance of theoretical components, practical applications for the course and appropriate to the range of student learning.

Helping students become self-directed.

In order to address the unique learning styles of students in this course, a variety of activities and learning experiences should be offered, including, but not restricted to: questioning, demonstrations, role-plays, simulations, co-operative group learning, brainstorming, discussion, peer coaching, interviewing, reflective writing, reflective thinking exercises, concept mapping, reading, tutoring, direct instruction, one-on-one teaching, and experiential learning.

Teachers will find ways throughout the course for students to make authentic learning connections with their other courses, the school, local community and the world at large.**Examples of teaching strategies:**

strategies.	
Brainstorming	Media Presentation
• Be the teacher	Peer feedback
Case Studies	 Planning and writing analytical pieces of work
 Computer technology – reports, 	 Provide specialized vocabulary
spreadsheets, flow charts , data	 Reading: read for meaning
bases, electronic presentation;	• Reading: to develop the ability to use specialized
Conferences	vocabulary
 Documentaries/Videos /Ted Talks/Video 	Research Project –individual
critique	Research Project-group
Flexible Grouping	• Role-play
Focus Groups–Informal	• Seminar
discussions based on focus questions	Skype interviews



Canada World Education

Formal Debates/Informal debates	Socratic Teaching
-	0
Graphic Organizers	Structured discussion
Group critique	Think-Pair Share
 Group Discussions 	 UDL-Aligned Strategies (see
 Independent Study 	https://goalbookapp.com/toolkit/strategies)
 Informal Debates 	 Write or give a personal perspective in
 Internet Based Research/Investigation 	discussions
Interview	
 Investigative and inquiry questions 	

Assessment & Evaluation of Student Performance

Assessment & Evaluation

The primary purpose of assessment and evaluation is to improve student learning and to help students assume responsibility for their learning.

Mid-term and final marks are determined through evaluations or Assessments of Learning, which typically occur towards the end of a unit and end of the term. During the learning process, information about a student's learning is gathered and used by the teacher and student to inform decisions that affect goal setting and teaching in the classroom. The data gathered as Assessment *as* Learning and Assessment *for* Learning do not carry a mark weight, but do play a crucial role in student success as they help inform the teacher about each student's progress. All types of assessments allow teachers to provide descriptive feedback that is clear, specific, meaningful, and timely to support improved learning and achievement.

Learning Skills and Work Habits (responsibility, organization, independent work, collaboration, initiative, self-regulation) will be reported by a letter (E = Excellent, G = Good, S = Satisfactory, N = Needs Improvement). These skills and habits support a high level of success in meeting the course expectations in addition to contributing to the development of positive life and work skills for the future.

Assessment as Learning	Assessment for Learning	
Student Product Entrance tickets Graphic organizers-KWL Journal Peer assessment Peer editing checklist Pre-tests/Diagnostic tests Quizzes Reflections Rough drafts Self assessment Self-proofreading using a checklist Practical task	Student Product 3-Minute Pause Assignments Diagnostic Assessment Exit tickets Graphic organizers Homework Journals/Letters/Emails Know, WonderLearn (KWL) Learning Logs Presentation (PPT/Prezi) Problem solving Quiz/problem solving Vocabulary notebook Project Practical task	
Observation	Observation	



 Checklist/Feedback for group discussion Peer rating on presentations Teacher anecdotal feedback Teacher feedback for a task Teacher rating for a task Whole class discussion 	 Class discussions Demonstrations Informal debate Performance tasks Presentations Role Play
 Conversation Student teacher conversations Questioning Moderated group discussions Peer-Oral feedback 	Conversation Brainstorming Debate Focused Conversations Oral pre-tests Oral quizzes Interviews Pair work Group work Portfolio conferencing Student teacher conferences

Considerations for Program Planning

- Individual Education Plan: Accommodations to meet the needs of exceptional students as set out in their Individual Education Plan will be implemented within the classroom program. Additional assistance is available through tutoring.
- The Role of Technology in the Curriculum. Using information technology will assist students in the achievement of many of the expectations in the curriculum regarding research, written work, analysis of information, and visual presentations.
- English As a Second Language (ESL): Appropriate accommodations in teaching, learning, and evaluation strategies will be made to help ESL students gain proficiency in English.
- Programs will involve an open, collaborative, activity-based approach to teaching that accommodates students' interests, aspirations, and learning styles. Activities will be designed to include both individual and team approaches, with emphasis on equity and inclusive education, financial literacy, careers, and health and safety.

Technological Devices:

Any device with windows 8 or newer will work on the software used for all courses.



For Online courses Electronic devices are necessary to access the course content and lessons. However, it is strongly recommended that students use other means such as paper and pencil when comprehension skills are required.

CWEC supports the use of technology to enhance learning, but the use of such electronic technology in the classroom is at the discretion of the teacher. Working together we can ensure the appropriate use of technology by all members of our school community.