

CURRICULUM ALIGNMENT – Who’ll Keep the Lights On?: Canada’s Nuclear Workforce

Ontario

Grade	Course Name and Number	Strand	Expectations
9	Science, Grade 9 (SNC1D)	A. Scientific Investigation Skills and Career Development	Overall Expectation A2: Identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields.
9	Science, Grade 9 (SNC1D)	A. Scientific Investigation Skills and Career Development	Specific Expectation A2.1: identify and describe a variety of careers related to the fields of science under study (e.g. astrophysicist, geophysicist, conservation officer, park warden, fire protection engineer, hydrologist, electrician) and the education and training necessary for these careers.
9	Science, Grade 9 (SNC1P)	A. Scientific Investigation Skills and Career Exploration	Overall Expectation A2: Identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields.
9	Science, Grade 9 (SNC1P)	A2. Career Exploration	Specific Expectation A2.1: Identify and describe a variety of careers related to the fields of science under study (e.g. radar satellite technician, fish and wildlife technologist, ceramicist, electrician) and the education and training necessary for these careers.
9	Issues in Canadian Geography, Grade 9 (CGC1P)	A: Geographic Inquiry and Skill Development	A2.4 Identify careers in which a geography background might be an asset.
9	Issues in Canadian Geography, Grade 9 (CGC1D)	A: Geographic Inquiry and Skill Development	A2.4 Identify careers in which a geography background might be an asset.
10	Science, Grade 10 (SNC2D)	A. Scientific Investigation Skills and Career Exploration	Overall Expectation A2: Identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields.

10	Science, Grade 10 (SNC2D)	A. Scientific Investigation Skills and Career Exploration	Specific Expectation A2.1: Identify and describe a variety of careers related to the fields of science under study (e.g. meteorologist, medical illustrator, geochemist, optical physicist) and the education and training necessary for these careers.
10	Science, Grade 10 (SNC2P)	A. Scientific Investigation Skills and Career Exploration	Overall Expectation A2: Identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields.
10	Science, Grade 10 (SNC2P)	A. Scientific Investigation Skills and Career Exploration	Specific Expectation A2.1: Identify and describe a variety of careers related to the fields of science under study (e.g. veterinarian assistant, quality control technician, conservation officer, sound and light technician) and the education and training necessary for these careers.
10	Science, Grade 10 (SNC2P)	A. Scientific Investigation Skills and Career Exploration	Overall Expectation A2: Identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields.
10	Science, Grade 10 (SNC2P)	A. Scientific Investigation Skills and Career Exploration	Specific Expectation A2.1: Identify and describe a variety of careers related to the fields of science under study (e.g. veterinarian assistant, quality control technician, conservation officer, sound and light technician) and the education and training necessary for these careers.
10	Career Studies, Grade 10, Open (GLC2O)	Exploration of Opportunities	Specific Expectation: Demonstrate effective use of research skills to locate and select career-related information from a variety of sources (e.g. information interviews; print, video and computer- based resources).
10	Career Studies, Grade 10, Open (GLC2O)	Exploration of Opportunities	Specific Expectation: Describe, on the basis of research, selected occupations or fields of work, using identified criteria (e.g. education, training, and skill requirements; duties; safety issues; employment prospects; security and benefits; knowledge and skills valued by the employer), and describe the ways in which secondary school students can prepare for those occupations.
10	Career Studies, Grade 10, Open (GLC2O)	Exploration of Opportunities	Specific Expectation: Identify a broad range of local and regional work opportunities, including self-employment and entrepreneurship, using a variety of resources (e.g. Internet websites, field trips, guest speakers, employment centres).
10	Discovering the Workplace,	Essential Skills for Working and Learning	Specific Expectation: Identify and describe the workplace essential skills, using a variety of electronic, print and human resources (e.g. the Human Resources and Social

	Grade 10, Open (GLD2O)		Development Canada [HRSDC] website, the Ontario Skills Passport, brochures on essential skills, employers).
10	Discovering the Workplace, Grade 10, Open (GLD2O)	Exploration of Opportunities	Overall Expectation: Demonstrate the ability to research information about education and work opportunities, using print, electronic and human resources.
10	Discovering the Workplace, Grade 10, Open (GLD2O)	Exploration of Opportunities	Specific Expectation: Locate information for a range of occupations, using print, electronic and human resources (e.g. Ontario Prospects, National Occupational Classification, mentors, guidance counsellors).
10	Discovering the Workplace, Grade 10, Open (GLD2O)	Exploration of Opportunities	Specific Expectation: Demonstrate knowledge of a range of occupations (e.g. duties, employment prospects, required knowledge and skills) and of the related education and/or training requirements.
11	Physics, Grade 11 (SPH3U)	A. Scientific Investigation Skills and Career Exploration	Overall Expectation A2: Identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields.
11	Physics, Grade 11 (SPH3U)	A. Scientific Investigation Skills and Career Exploration	Specific Expectation A2.1: Identify and describe a variety of careers related to the fields of science under study (e.g. theoretical physicist; communications, networks, and control systems professional; engineer; metallurgist) and the education and training necessary for these careers.
11	Designing Your Future, Grade 11, Open (GWL3O)	Exploration of Opportunities	Overall Expectation: Use research skills and strategies to gather and interpret relevant information about work and learning opportunities.
11	Designing Your Future, Grade 11, Open (GWL3O)	Exploration of Opportunities	Overall Expectation: Describe, on the basis of research, opportunities in various occupational sectors and explain the requirements and challenges of selected occupations.
12	Physics, Grade	A. Scientific Investigation Skills and	Overall Expectation A2: Identify and describe careers related to the fields of science

	12 (SPH4U)	Career Exploration	under study, and describe the contributions of scientists, including Canadians, to those fields.
12	Physics, Grade 12 (SPH4U)	A. Scientific Investigation Skills and Career Exploration	Specific Expectation A2.1: Identify and describe a variety of careers related to the fields of science under study (e.g. laser optics researcher, geoscientist, photonics researcher, aerospace engineer) and the education and training necessary for these careers.
12	Physics, Grade 12 (SPH4C)	A. Scientific Investigation Skills and Career Exploration	Overall Expectation A2: Identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields.
12	Physics, Grade 12 (SPH4C)	A. Scientific Investigation Skills and Career Exploration	Specific Expectation A2.1: Identify and describe a variety of careers related to the fields of science under study (e.g. alternative energy advocate, sustainable energy technician, electrician, mechanic) and the education and training necessary for these careers.
12	Science, Grade 12 (SNC4M)	A. Scientific Investigation Skills and Career Development	Overall Expectation A2: Identify and describe careers related to the fields of science under study, and describe the contributions of scientists, including Canadians, to those fields.
12	Science, Grade 12 (SNC4M)	A. Scientific Investigation Skills and Career Development	Specific Expectation A2.1: Identify and describe a variety of careers related to the fields of science under study (e.g. nuclear medicine technician, nurse practitioner, hematologist, dietician, geneticist) and the education and training necessary for these careers.
12	Science, Grade 12 (SNC4E)	A. Scientific Investigation Skills and Career Development	Overall Expectation A2: Identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields.
12	Science, Grade 12 (SNC4E)	A. Scientific Investigation Skills and Career Development	Specific Expectation A2.1: Identify and describe a variety of careers related to the fields of science under study (e.g. chemical technician, baker, blood laboratory assistant, custodian, public works employee, cosmetologist) and the education and training necessary for these careers.
12	Navigating the Workplace, Grade 12, Open (GLN4O)	Exploration of Opportunities	Overall Expectation: Demonstrate the ability to research information about learning and work opportunities, using print, electronic and human resources.

12	Navigating the Workplace, Grade 12, Open (GLN40)	Exploration of Opportunities	Overall Expectation: Use an inquiry process (i.e. formulate questions; gather, organize, interpret, assess, and communicate information) to locate information about post-secondary learning and work options (e.g. on-the-job training, apprenticeship, college, university, fields of work, specific occupations).
12	Navigating the Workplace, Grade 12, Open (GLN40)	Exploration of Opportunities	Overall Expectation: Locate information about learning opportunities and work, using a variety of career information resources (e.g. National Occupational Classification, Job Futures, Ontario Prospects) and human resources (e.g. mentors, placement supervisors).
12	Navigating the Workplace, Grade 12, Open (GLN40)	Exploration of Opportunities	Overall Expectation: Summarize and communicate information about occupations of interest (e.g. work environment, employment prospects, duties, required workplace essential skills) and the education and/or training recommended for these occupations.