

CURRICULUM ALIGNMENT – The Atomic Age in Canada

Manitoba

Grade	Course Name and Number	Unit	Specific Outcome
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	Specific Learning Outcome S1-0-2d: Review effects of past decisions and various perspectives related to an STSE issue.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	Specific Learning Outcome S1-0-3e: Determine criteria for the evaluation of an STSE decision.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	Specific Learning Outcome S1-0-3f: Formulate and develop options which could lead to an STSE decision.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	Specific Learning Outcome S1-0-5d: Evaluate, using pre-determined criteria, different STSE options leading to a possible decision. Include: scientific merit; technological feasibility; social, cultural, economic, and political factors; safety; cost; sustainability.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	Specific Learning Outcome S1-0-8g: Discuss social and environmental effects of past scientific and technological endeavours. Include: major shifts in scientific world views, unintended consequences.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	Specific Learning Outcome S1-0-9c: Demonstrate confidence in their ability to carry out investigations in science and to address STSE issues.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	Specific Learning Outcome S1-0-2a: Select and integrate information obtained from a variety of sources. Include: print, electronic, specialists, other resource people.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	Specific Learning Outcome S1-0-2c: Summarize and record information in a variety of forms. Include: paraphrasing, quoting relevant facts and opinions, proper referencing of sources.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	Specific Learning Outcome S1-0-4e: Work cooperatively with group members to carry out a plan, and troubleshoot problems as they arise.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	Specific Learning Outcome S1-0-5c: Record, organize and display data using an appropriate format. Include: labelled diagrams, graphs, multimedia.
11	Senior 3 Current Topics in the Sciences	GLOB: Science, Technology, Society and the Environment	Specific Learning Outcome SLO B2: Recognize that scientific and technological endeavours have been, and continue to be, influenced by human needs and by societal and historical contexts.

11	Senior 3 Current Topics in the Sciences	GLOC: Scientific and Technical Skills and Attitudes	Specific Learning Outcome SLO C4: Employ effective communication skills and use a variety of resources to gather and share scientific and technological ideas and data.
11	Senior 3 Current Topics in the Sciences	GLOC: Scientific and Technical Skills and Attitudes	Specific Learning Outcome SLO C5: Work cooperatively with others and value their ideas and contributions.
12	Interdisciplinary Topics in Science 40S	GLOA: Nature of Science and Technology	Specific Learning Outcome SLO A1: Identify and appreciate the manner in which history, circumstance, and culture shape the science of a society and its creation or use of technologies.
12	Interdisciplinary Topics in Science 40S	GLOA: Nature of Science and Technology	Specific Learning Outcome SLO A3: Examine and analyze an instance, either historical or present-day, where 'revolutionary' scientific change altered the fundamentals of a discipline, a research programme or the behaviour within a scientific community.
12	Interdisciplinary Topics in Science 40S	GLOC: Scientific and Technical Skills and Attitudes	Specific Learning Outcome SLO C21: Demonstrate confidence in their ability to carry out investigations and to address STSE-related issues.
12	Interdisciplinary Topics in Science 40S	GLOC: Scientific and Technical Skills and Attitudes	Specific Learning Outcome SLO C11: Synthesize information obtained from a variety of sources.
12	Interdisciplinary Topics in Science 40S	GLOC: Scientific and Technical Skills and Attitudes	Specific Learning Outcome SLO C14: Communicate information in a variety of forms appropriate to the purpose, audience and context.
12	Interdisciplinary Topics in Science 40S	GLOC: Scientific and Technical Skills and Attitudes	Specific Learning Outcome SLO C15: Use bibliographic and electronic research tools to collect information on a selected topic.
12	Interdisciplinary Topics in Science 40S	GLOC: Scientific and Technical Skills and Attitudes	Specific Learning Outcome SLO C18: Collaborate with others to achieve group goals and responsibilities.
12	Interdisciplinary Topics in Science 40S	GLOD: Essential Science Concepts	Specific Learning Outcome SLO D1: Integrate knowledge, as necessary, from various science specialties in order to address an issue, engage in problem solving or conduct scientific inquiries.
12	Senior 4 Physics	Topic 4.1: Medical Physics	Specific Learning Outcome S4P-0-1c: Relate the historical development of scientific

			ideas and technology to the form and function of scientific knowledge today.
12	Senior 4 Physics	Topic 4.1: Medical Physics	Specific Learning Outcome S4P-0-3b: Describe examples of how technology has evolved in response to scientific advances and how scientific knowledge has evolved as the result of new innovations in technology.
12	Senior 4 Physics	Topic 4.1: Medical Physics	Specific Learning Outcome S4P-0-3c: Identify social issues related to science and technology, taking into account human and environmental needs and ethical considerations.
12	Senior 4 Physics	Topic 4.1: Medical Physics	Specific Learning Outcome S4P-0-4c: Demonstrate confidence in their ability to carry out investigations in science and to address STSE issues.
12	Senior 4 Physics	Topic 4.1: Medical Physics	Specific Learning Outcome S4P-0-4e: Demonstrate a continuing and more informed interest in science and science-related issues.
12	Senior 4 Physics	Topic 4.1: Medical Physics	Specific Learning Outcome S4P-0-4c: Demonstrate confidence in their ability to carry out investigations in science and to address STSE issues.
12	Senior 4 Physics	Topic 4.1: Medical Physics	Specific Learning Outcome S4P-0-4b: Work co-operatively with a group to identify prior knowledge, initiate and exchange ideas, propose problems and their solution, and carry out investigations.
12	Senior 4 Physics	Topic 4.1: Medical Physics	Specific Learning Outcome S4P-0-2i: Select and integrate information obtained from a variety of sources.
12	Senior 4 Physics	Topic 4.1: Medical Physics	Specific Learning Outcome S4P-0-3a: Analyze, from a variety of perspectives, the risks and benefits to society and the environment when applying scientific knowledge or introducing technology.
12	Senior 4 Physics	Topic 4.1: Medical Physics	Specific Learning Outcome S4P-4-9: Research, identify and examine the application of radiation to diagnostic imaging and treatment techniques.