

CURRICULUM ALIGNMENT – Picture This: Scientists on Stamps

Manitoba

Grade	Course Name and Number	Unit	Specific Outcome
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 S1-0-2c: 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.

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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 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 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.
11	Senior 3 Current Topics in the Sciences	GLOB: Science, Technology, Society and the Environment	Specific Learning Outcome SLO B1: Describe scientific and technological developments, past and present, and appreciate their impact on individuals, societies, and the environment, both locally and globally.
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	GLOB: Science, Technology, Society and the Environment	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	GLOB: Science, Technology, Society and the Environment	Specific Learning Outcome SLO C18: Collaborate with others to achieve group goals and responsibilities.

12	Interdisciplinary Topics in Science 40S	GLOB: Science, Technology, Society and the Environment	Specific Learning Outcome SLO C19: Elicit, clarify and respond to questions, ideas and diverse points of view in discussions.
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-0-4e: 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-0-4b: 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-0-4c: 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-4-9: Research, identify and examine the application of radiation to diagnostic imaging and treatment techniques.