

# CURRICULUM ALIGNMENT – Attack of the 50 Foot Mutant: Radiation in Popular Culture

## Alberta

Grade	Course Name and Number	Unit	Specific Outcome
10	Science 10	Unit A: Energy and Matter in Chemical Change (Nature of Science Emphasis)	<b>Specific Outcome (Performing and Recording):</b> Use library and electronic research tools to collect information on a given topic.
10	Science 10	Unit A: Energy and Matter in Chemical Change (Nature of Science Emphasis)	<b>Skill Outcome (Communication and Teamwork):</b> Select and use appropriate numeric, symbolic, graphical and linguistic modes of representation to communicate ideas, plans and results.
10	Science 10	Unit A: Energy and Matter in Chemical Change (Nature of Science Emphasis)	<b>Skill Outcome (Communication and Teamwork):</b> Communicate questions, ideas and intentions; and receive, interpret, understand, support and respond to the ideas of others.
10	Science 10	Unit A: Energy and Matter in Chemical Change (Nature of Science Emphasis)	<b>Attitude Outcome (Scientific Inquiry):</b> Seek and apply evidence when evaluating alternative approaches to investigations, problems and issues.
10	Science 10	Unit A: Energy and Matter in Chemical Change (Nature of Science Emphasis)	<b>Specific Outcome 4.6:</b> Investigate the effect of mutagens and radiation on genes and chromosomes and the implications for inheritance of genetic disorders.
10	Science 10	Unit A: Energy and Matter in Chemical Change (Nature of Science Emphasis)	<b>Attitude Outcome (Interest in Science):</b> Show interest in science-related questions and issues, and confidently pursue personal interests and career possibilities within science-related fields.
11	Science 24	Unit C: Disease Defence and Human Health (Social and Environmental Emphasis)	<b>Skill Outcome (Analyzing and Interpreting):</b> Compile and organize data, using appropriate formats and data treatments to facilitate interpretation.
11	Science 24	Unit C: Disease Defence and Human Health (Social and Environmental Emphasis)	<b>Specific Outcome (Performing and Recording):</b> Use library and electronic research tools to collect information on a given topic.
11	Science 24	Unit C: Disease Defence and Human Health (Social and Environmental Emphasis)	<b>Specific Outcome (Performing and Recording):</b> Select and integrate information from various print and electronic sources.
11	Science 24	Unit C: Disease Defence and Human Health (Social and Environmental Emphasis)	<b>Skill Outcome (Analyzing and Interpreting):</b> Compile and organize data, using appropriate formats and data treatments to facilitate interpretation.

11	Science 24	Unit C: Disease Defence and Human Health (Social and Environmental Emphasis)	<b>Specific Outcome 30-C3.6k:</b> Explain how a random change (mutation) in the sequence of bases results in abnormalities or provides a source of genetic variability.
11	Science 24	Unit C: Disease Defence and Human Health (Social and Environmental Emphasis)	<b>Specific Outcome 30-C31.sts:</b> Explain that science and technology have both intended and unintended consequences for humans and the environment.
11	Science 24	Unit C: Disease Defence and Human Health (Social and Environmental Emphasis)	<b>Specific Outcome 30-D3.1k:</b> Describe the nature and properties, including the biological effects, of alpha, beta and gamma radiation.
12	Biology 30	Unit C: Cell Division, Genetics and Molecular Biology	<b>Specific Outcome 30-D3.4s:</b> Work collaboratively in addressing problems and apply the skills and conventions of science in communicating information and ideas and in assessing results.
12	Biology 30	Unit C: Cell Division, Genetics and Molecular Biology	<b>Specific Outcome 30-D2.6k:</b> Describe the main types and sources of radioactive decay and resulting ionizing radiation; i.e. alpha ( $\alpha$ ), beta ( $\beta$ ) and gamma ( $\gamma$ ) decay.
12	Physics 30	Unit D: Atomic Physics	<b>Specific Outcome (Performing and Recording):</b> Use library and electronic research tools to collect information on a given topic.
12	Physics 30	Unit D: Atomic Physics	<b>Skill Outcome (Communication and Teamwork):</b> Select and use appropriate numeric, symbolic, graphical and linguistic modes of representation to communicate ideas, plans and results.
12	Science 30	Unit D: Energy and the Environment	<b>Skill Outcome (Communication and Teamwork):</b> Communicate questions, ideas and intentions; and receive, interpret, understand, support and respond to the ideas of others.