

# CURRICULUM ALIGNMENT – Fission vs. Fusion

## Nunavut

Grade	Course Name and Number	Unit	Outcome
12	Science 30	Unit D: Energy and the Environment	<b>Specific Outcome 30–D2.5k:</b> Explain the difference between fission and fusion and balance simple nuclear reaction equations to show the conservation of nucleons; e.g. $({}_0^1\text{n} + {}_{92}^{235}\text{U} \rightarrow {}_{56}^{141}\text{Ba} + {}_{36}^{92}\text{Kr} + 3{}_0^1\text{n}; {}_1^2\text{H} + {}_1^2\text{H} \rightarrow {}_2^3\text{He} + {}_0^1\text{n})$
12	Science 30	Unit D: Energy and the Environment	<b>Specific Outcome 30–D2.4s:</b> Work collaboratively in addressing problems and apply the skills and conventions of science in communicating information and ideas and in assessing results.
12	Physics 30	Unit D: Atomic Physics	<b>General Outcome 3:</b> Students will describe nuclear fission and fusion as powerful energy sources in nature.
12	Physics 30	Unit D: Atomic Physics	<b>Specific Outcome 30–D3.5k:</b> Compare and contrast the characteristics of fission and fusion reactions.
12	Physics 30	Unit D: Atomic Physics	<b>Specific Outcome 30–D1.4s:</b> Work collaboratively in addressing problems and apply the skills and conventions of science in communicating information and ideas and in assessing results.