

SCIENCE 10

QUICK-START GUIDE ALBERTA CURRICULUM



Lessons and activities at a glance, aligned to the Alberta Science 10 curriculum: videos, calculations, and a class debate. Built to make efficiency and energy choices concrete for your students while saving you planning time.

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SCIENCE 10

ALBERTA CURRICULUM

Overview: The first and second laws of thermodynamics have been useful in the development of modern and efficient energy conversion devices.

Learning Outcome: Students investigate energy in mechanical systems and measure efficiency of energy transformation in technological systems.

LESSON	ACTIVITY
The Energy Mix Video	Watch the video as a class and discuss key trends. Consider why we use various fuels.
Introduction to Energy Choices	Use the hands-on activity to explore factors that influence our energy decisions.
Science of Nuclear	Practice nuclear energy calculations or conduct the Nuclear Energy Town Hall Debate.
Introduction to Efficiency Video	Explore why efficiency is the first step in managing personal energy use.
Introduction to Environmental Impacts	Assign the data set and accompanying reflection questions.
Energy Units Math Challenge	Assign the math activities to explore energy, power, and work through calculations.
Developing Media Literacy	Introduce students to the fundamentals of media literacy through the lens of researching energy topics.



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