

SCIENCE 30

QUICK-START GUIDE ALBERTA CURRICULUM



Lessons and activities at a glance, aligned to the Alberta Science 30 curriculum: video case studies, a debate, and hands-on labs. Built to connect energy to society and environment while saving you planning time.

FREE + EDITABLE

switchclassroom.org



SCIENCE 30

ALBERTA CURRICULUM

Overview: Matter cycles and energy dissipates through the biosphere and its component ecosystems.

Learning Outcome: Analyze and investigate the cycling of matter and the flow of energy through the biosphere and ecosystems as well as the interrelationship of society and the environment.

LESSON	ACTIVITY
Switch On: The Complete Film	Watch the film and discuss how energy connects to economic prosperity and social progress.
Introduction to Efficiency Video	Explore why efficiency is the first step in managing personal energy use.
National Energy Issues Debate	Have students research an assigned stance on energy policy, then hold a classroom debate.
Introduction to Environmental Impacts	Review vocabulary and watch the video. Assign student groups to play the Energy Impact Dice Game.
Introduction to Coal	Assign student groups to complete the data set and the Power Generation Simulation.
Science of Solar	Practice experimental design in the hands-on solar lab.
Developing Media Literacy	Introduce students to the fundamentals of media literacy through the lens of researching energy topics.



SWITCH

CLASSROOM

See the full guide at switchclassroom.org