

EARTH SCIENCES 11

**QUICK-START GUIDE
BRITISH COLUMBIA CURRICULUM**



Lessons and activities at a glance, aligned to the BC Earth Sciences 11 curriculum: data sets, simulations, videos, and hands-on activities. Built to connect geology and energy for your students while saving you planning time.

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Earth Sciences Big Ideas: Earth materials are changed as they cycle through the geosphere and are used as resources, with economic and environmental implications.

Earth Sciences Content: Economic and environmental implications of geological resources within BC and globally

- Economic feasibility
- Extraction methods
- Site remediation

LESSON	ACTIVITY
Introduction to Environmental Impacts	Assign the data set and accompanying reflection questions.
Introduction to Energy Choices	Use the hands-on activity to explore factors that influence our energy decisions.
Introduction to Coal	Assign student groups to complete the data set and the Power Generation Simulation.
Fracking - Risks & Benefits	Watch the video and discuss the environmental trade-offs of hydraulic fracturing.
Modern Oil Drilling and Unconventional Sources	Watch the video to see modern oil drilling technology.
Developing Media Literacy	Introduce media literacy fundamentals through researching energy topics.



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