

Program: Re-Energy

Grade 4 - Alberta Science Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
Activity: Renewable Energy Sources	Grade 7-12	
Activity: What is Renewable Energy?	Grade 7-12	
Activity: Build a Solar Car	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Build a Solar Oven	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Construire un Four Solaire	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Introduction to Solar Electricity	Energy	Students investigate how forces can act on objects without contact.
Activity: Introduction to Solar Heat Energy	Energy	Students investigate how forces can act on objects without contact.
Activity: Solar Energy Transition with Six Nations of the Grand River	Energy	Students investigate how forces can act on objects without contact.
Activity: Electrifying the Future of Transportation Guide	Grade 9-12	
Activity: Build an Electric Vehicle Model	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Exploring Electric Vehicle Charging Stations	Grade 7-12	
Activity: History of the Electric Vehicle	Grade 7-12	
Activity: How is Your Community Adapting for Electric Vehicles?	Grade 7-12	
Activity: Planning a Trip in your Electric Vehicle	Grade 7-12	
Activity: Electric Vehicles and Charging Stations with Six Nations of the Grand River	Energy	Students investigate how forces can act on objects without contact.
Activity: What EV Should You Buy?	Grade 7-12	

Activity: Build a Wind Turbine	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Introduction to Wind Energy	Energy	Students investigate how forces can act on objects without contact.
Activity: Wind Turbine Simulator	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Build a Hydroelectric Generator	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Introduction to Hydro Energy	Energy	Students investigate how forces can act on objects without contact.
Activity: Pumped Hydro Storage	Grade 7-12	
Activity: Build a Biogas Generator	Grade 7-12	
Activity: Introduction to Biomass Energy	Grade 7-12	
Activity: Build a Flywheel Model	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Build a Penny Battery	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Endothermic and Exothermic Reactions	Grade 7-12	
Activity: Energy Storage Match	Grade 7-12	
Activity: Exploring Energy Storage in Your Community	Grade 7-12	
Activity: Exploring How to Make a Battery	Grade 7-12	
Activity: Heat Transfer Lab	Grade 7-12	
Activity: The Electrostatic Effect	Grade 7-12	