

Program: Re-Energy

Grade 5 - 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 and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Build a Solar Oven	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Construire un Four Solaire	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Introduction to Solar Electricity	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.
Activity: Introduction to Solar Heat Energy	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.
Activity: Solar Energy Transition with Six Nations of the Grand River	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.
Activity: Electrifying the Future of Transportation Guide	Grade 9-12	

Activity: Build an Electric Vehicle Model	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.
	Computer Science	Students apply design processes when creating artifacts that can be used by a human or machine to address a need.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics 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 and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.
Activity: What EV Should You Buy?	Grade 7-12	
Activity: Build a Wind Turbine	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Introduction to Wind Energy	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.
Activity: Wind Turbine Simulator	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Build a Hydroelectric Generator	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Introduction to Hydro Energy	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Energy	Students investigate and analyze various energy resources.

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 and compare how forces affect living things and objects in water and air.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Build a Penny Battery	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics 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	