Photo	Tool Name	Brief Description	Source	
		1 Natural Resources for Energy		
	Coal sample	Sample of coal as an energy resource.	<u>Dodds Coal</u> <u>Mine</u>	
MATURAL CAS	Oil sands sample	Sample of oil sands as an energy resource.	CAPP	
	Natural gas pipe	Model of a natural gas pipe demonstrating natural gas as an energy resource.	<u>Lowe's</u> and <u>Brady Canada</u>	
	Nuclear sample (plastic replica)	Sample of uranium (nuclear energy) as an energy resource.	<u>Canadian</u> <u>Nuclear Society</u>	
NE SA	Solar sample	Example of a solar panel demonstrating the sun as an energy resource.	<u>Amazon</u>	
	Wind sample	Photo of a wind turbine demonstrating wind as an energy resource.	Photo	
	Geothermal sample	Model of the earth demonstrating geothermal as an energy resource.	Photo	
	Hydro sample	Photo of a hydroelectric dam demonstrating water as an energy resource.	Photo	
	Biomass sample	Sample of biomass (wood pellets) as an energy resource.	<u>Canadian Tire</u>	
	Alberta Natural Resources Map	Map of Alberta's natural regions and the natural resources found within each.	Inside Ed website	
arinatus arinat	Natural Resource Riddles (cards)	A series of 9 clues that correspond to each of the natural resourc samples.	Inside Ed website	
northin years and the second		2 Canada's Energy Landscape		
	Energy Moves Board Game & Cards	Board game with 6 sets of cards - consultation, environmental assessment, resource extraction, transportation, reclamation & monitoring, and processing.	<u>Inside Ed</u> website	
		3 Electricity Generation		
que que energizer :	Hand Generator	Converts mechanical energy to electrical energy to light a light bulb. Leads can also be attached to a multimeter, LED bulb, etc.	Kidder	
	Multimeter	An instrument that measures electric current, voltage and resistance.	Ajax Scientific	
	D-Cell battery	A large battery used in the electromagnet building experiment.	<u>Amazon</u>	
	Bolt (zinc, 3in)	A zinc bolt used in the electromagnet building experiment.	<u>Amazon</u>	
All of the items on this list are available for purchase from various upodays. If you need a hand sourcing tools for your descreen				

Photo	Tool Name	Brief Description	Source			
	Paperclips	Small and large paper clips used to test the strength of an electromagnet.	N/A			
	Electrical tape	Electrical tape used to connect copper wire to the battery in the electromagnet building experiment.	<u>Canadian Tire</u>			
De	Insulated copper wire (20AWG)	Insulated copper wire used in the electromagnet building experiment.	Home Depot			
\$405	Electricity poster	The Electricity poster includes a number of activities on topics including electricity safety, natural resources for electricity, and generating electricity across Canada.	Inside Ed website			
4 Renewable & Alternative Energy						
	Wind turbine models (5)	These DIY wind turbine models demonstrate how wind energy is captured and generated. Complete as a design challenge between groups and measure output using the light indicator and multimeter.	Kidder			
	Electrolysis Experiment	To use Hydrogen as an energy source, the Hydrogen needs to be extracted somehow. One way is through electrolysis - i.e. splitting water into Hydrogen and Oxygen. This simple experiment shows how the process of electrolysis works to produce Hydrogen.	N/A			
	Solar panel	This 12V solar panel contains photovoltaic cells that capture solar energy and convert it to electrical energy.	<u>Canadian Tire</u>			
	5 Expeience Fossil Fuels					
PROTECT & STATE OF ST	lssues & Innovations Cards	Match the issue to the innovation to learn more about what's being done to lessen the impact of the fossil fuels industries on water, wildlife and air.	<u>Inside Ed</u> <u>website</u>			
ISSUES 8 BINDY A TIONS CARDS CARDS	Innovations Cards	what's being done to lessen the impact of the fossil fuels				
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PROCEEDING AND	Energy Meter LED light bulb Incandescent light bulb Lux Meter Zecar	what's being done to lessen the impact of the fossil fuels industries on water, wildlife and air. 6 Energy Efficiency & Conservation Measures the amount of electrical energy consumed by an electrical device. A source of electrical light that uses one or more Light Emitting Diodes (<i>LEDs</i>) to produce light. A source of electric light that works by incandescence, which is the emission of light caused by heating a filament. A device that measures the brightness of illumination (<i>light</i>) of a surface. 7 Energy Storage This model car uses the stored kinetic energy of its flywheel to scoot across the floor. This model car uses the stored energy of its battery to scoot across the floor.	Website Walmart Canadian Tire Canadian Tire Walmart Arbor Scientific			