Photo	Tool Name	Brief Description	Source	
1 Natural Resources for Energy				
	Coal sample	Sample of coal as an energy resource.	Donated to Inside Ed	
	Oil sands sample	Sample of oil sands as an energy resource.	Donated to Inside Ed	
NATURAL GAS	latural gas pipe	Model of a natural gas pipe demonstrating natural gas as an energy resource.	Lowe's and Brady Canada	
See a least the second	Nuclear sample (plastic replica)	Sample of uranium (nuclear energy) as an energy resource.	American Nuclear Society	
	Solar sample	Example of a solar panel demonstrating the sun as an energy resource.	Amazon (Uxcell)	
To Table	Wind sample	Photo of a wind turbine demonstrating wind as an energy resource.	N/A	
	Geothermal sample	Model of the earth demonstrating geothermal as an energy resource.	4Imprint	
- mm	Hydro sample	Photo of a hydroelectric dam demonstrating water as an energy resource.	N/A	
	Biomass sample	Sample of biomass (wood pellets) as an energy resource.	Canadian Tire	
Series de la constant	Magnetic Puzzle (Alberta Natural Resources Map)	Map of Alberta's natural regions and the natural resources found within each.	Made by Inside Ed	
BEET STATE OF THE	Natural Resource Riddles (cards)	A series of 9 clues that correspond to each of the natural resourc samples.	Made by Inside Ed	
		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.	Made by Inside Ed	
		3 Electricity Generation		
4	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	
O	Multimeter	An instrument that measures electric current, voltage and resistance.	Kelvin	
Energizer) :	D-Cell battery	A large battery used in the electromagnet building experiment.	<u>Canadian Tire</u>	
\$C1671604.6	Bolt (zinc, 3in)	A zinc bolt used in the electromagnet building experiment.	<u>Canadian Tire</u>	

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>		
	Insulated copper wire (20AWG)	Insulated copper wire used in the electromagnet building experiment.	<u>Canadian Tire</u>		
CAS CAS	Electricity poster	The Electricity poster includes a number of activities on topics including electricity safety, natural resources for electricity, and generating electricity across Canada.	Made by Inside Ed		
	4	4 Renewable & Alternative Energy			
4	Wind turbine model	This easy-to-build wind turbine model demonstrates how wind energy is captured. Includes a light and sound board and multimeter to measure output, and materials to experiment with the blade design.	<u>Vernier Canada</u>		
10	MudWatt Microbial Fuel Cell	This microbial fuel cell only requires an input of soil <i>(or compost)</i> to demonstrate how chemical energy can be turned into electrical energy using the power of microbes.	<u>Forestry</u> <u>Suppliers</u>		
	Solar panel (1.5V)	This 1.5V solar panel contains photovoltaic cells that capture solar energy and convert it to electrical energy.	Amazon (Gtiwung)		
	Mini light bulb (light output indicator)	A light output indicator can be used in various electricity demonstrations and experiments.	<u>Ajax Scientific</u>		
		5 Expeience Fossil Fuels			
MINING	Mining posters (4)	The 4 mining posters give an overview of the mining industry in Alberta, including its products, environmental considerations, technology development, and careers.	Made by Inside Ed		
6 Energy Efficiency & Conservation					
MARK /	Energy Meter	Measures the amount of electrical energy consumed by an electrical device.	Donated by ENMAX		
	LED light bulb	A source of electrical light that uses one or more Light Emitting Diodes (<i>LEDs</i>) to produce light.	<u>Canadian Tire</u>		
U U	Incandescent light bulb	A source of electric light that works by incandescence, which is the emission of light caused by heating a filament.	<u>Canadian Tire</u>		
	Lux Meter	A device that measures the brightness of illumination (<i>light</i>) of a surface.	Amazon (Btmeter)		
7 Energy Storage					
	Zecar	This model car uses the stored kinetic energy of its flywheel to scoot across the floor.	Arbor Scientific		
e la constant	Electric car model	This model car uses the stored energy of its battery to scoot across the floor.	<u>Kidder</u>		
8 Stewardship					
	Infrared thermometer	An instrument that detects the infrared radiation emitted by an object to determine its temperature.	Walmart		
	1,000 mL beaker	A 1,000 mL beaker can be used to measure the flow rate of a tap.	<u>Uline</u>		