

Program: Energy Revealed

Grade 8 – Ontario Math Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
Activity: Knowing Energy: Stair Climb	B. Number: B2. Operations	B2.1 - use the properties and order of operations, and the relationships between operations, to solve problems involving rational numbers, ratios, rates, and percents, including those requiring multiple steps or multiple operations
Activity: Knowing Energy: Tea at Home	B. Number: B2. Operations	B2.1 - use the properties and order of operations, and the relationships between operations, to solve problems involving rational numbers, ratios, rates, and percents, including those requiring multiple steps or multiple operations
Activity: Knowing Energy: Race to a kWh	B. Number: B2. Operations	B2.1 - use the properties and order of operations, and the relationships between operations, to solve problems involving rational numbers, ratios, rates, and percents, including those requiring multiple steps or multiple operations
Activity: Knowing Energy: How Intense is Your Electricity Usage?	B. Number: B2. Operations	B2.1 - use the properties and order of operations, and the relationships between operations, to solve problems involving rational numbers, ratios, rates, and percents, including those requiring multiple steps or multiple operations
Activity: Knowing Energy: The Electricity Grid	N/A	
Activity: Knowing Energy: Renewables	N/A	
Activity: Knowing Energy: The Big Picture	N/A	
Activity: All About the Baseline	D. Data: D1. Data Literacy	D1.3 - select from among a variety of graphs, including scatter plots, the type of graph best suited to represent various sets of data; display the data in the graphs with proper sources, titles, and labels, and appropriate scales; and justify their choice of graphs
		D1.6 - analyse different sets of data presented in various ways, including in scatter plots and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions
Activity: Can You Observe How You Conserve?	N/A	
Activity: Energy Hogs	N/A	
Activity: Extra Energy Investigation	N/A	

Activity: How Smart is Your Smart Board?	D. Data: D1. Data Literacy	D1.2 - collect continuous data to answer questions of interest involving two variables, and organize the data sets as appropriate in a table of values
		D1.3 - select from among a variety of graphs, including scatter plots, the type of graph best suited to represent various sets of data; display the data in the graphs with proper sources, titles, and labels, and appropriate scales; and justify their choice of graphs
		D1.6 - analyse different sets of data presented in various ways, including in scatter plots and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions
Activity: Imagination Station	N/A	
Activity: Small Appliance Energy Reliance	D. Data: D1. Data Literacy	D1.2 - collect continuous data to answer questions of interest involving two variables, and organize the data sets as appropriate in a table of values
		D1.3 - select from among a variety of graphs, including scatter plots, the type of graph best suited to represent various sets of data; display the data in the graphs with proper sources, titles, and labels, and appropriate scales; and justify their choice of graphs
		D1.6 - analyse different sets of data presented in various ways, including in scatter plots and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions
Activity: Start Me Up!	N/A	
Activity: Take a Look	Grade 4-6	
Activity: Total Energy vs Total Cost	D. Data: D1. Data Literacy	D1.2 - collect continuous data to answer questions of interest involving two variables, and organize the data sets as appropriate in a table of values
		D1.3 - select from among a variety of graphs, including scatter plots, the type of graph best suited to represent various sets of data; display the data in the graphs with proper sources, titles, and labels, and appropriate scales; and justify their choice of graphs
		D1.6 - analyse different sets of data presented in various ways, including in scatter plots and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions
Activity: Understanding Energy Efficiency in Your School	N/A	
Activity: Community Walk	N/A	
Activity: School Energy Audit	N/A	
Activity: Energy Efficient Lighting	Grade 4-7	

Activity: Find the Phantom Load	D. Data: D1. Data Literacy	D1.2 - collect continuous data to answer questions of interest involving two variables, and organize the data sets as appropriate in a table of values
		D1.3 - select from among a variety of graphs, including scatter plots, the type of graph best suited to represent various sets of data; display the data in the graphs with proper sources, titles, and labels, and appropriate scales; and justify their choice of graphs
		D1.6 - analyse different sets of data presented in various ways, including in scatter plots and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions
Activity: Home Energy Audit	N/A	
Activity: Watchers and Seekers	N/A	
Activity: Back to the Future	Grade 4-7	
Activity: Changing Our Ways	Grade 4-7	
Activity: Exploring Our Energy Ethics	Grade 4-7	
Activity: Once Upon a Bike	Grade 4-7	
Activity: Puzzling Over Energy Issues	Grade 4-7	
Activity: Ride, Roll and Stroll	Grade 4-7	
Activity: Speak for the Trees	D. Data: D1. Data Literacy	D1.2 - collect continuous data to answer questions of interest involving two variables, and organize the data sets as appropriate in a table of values
		D1.3 - select from among a variety of graphs, including scatter plots, the type of graph best suited to represent various sets of data; display the data in the graphs with proper sources, titles, and labels, and appropriate scales; and justify their choice of graphs
		D1.6 - analyse different sets of data presented in various ways, including in scatter plots and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions
Activity: Taking the Lead	Grade 4-7	
Activity: Walk a Mile	Grade 4-7	