

Program: Energy Revealed

Grade 4 – Ontario Math Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
Activity: Knowing Energy: Stair Climb	B. Number: B2. Operations	B2.1 - use the properties of operations, and the relationships between addition, subtraction, multiplication, and division, to solve problems involving whole numbers, including those requiring more than one operation, and check calculations
Activity: Knowing Energy: Tea at Home	B. Number: B2. Operations	B2.1 - use the properties of operations, and the relationships between addition, subtraction, multiplication, and division, to solve problems involving whole numbers, including those requiring more than one operation, and check calculations
Activity: Knowing Energy: Race to a kWh	B. Number: B2. Operations	B2.1 - use the properties of operations, and the relationships between addition, subtraction, multiplication, and division, to solve problems involving whole numbers, including those requiring more than one operation, and check calculations
Activity: Knowing Energy: How Intense is Your Electricity Usage?	B. Number: B2. Operations	B2.1 - use the properties of operations, and the relationships between addition, subtraction, multiplication, and division, to solve problems involving whole numbers, including those requiring more than one operation, and check calculations
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	Grade 7-12	
Activity: Can You Observe How You Conserve?	N/A	
Activity: Energy Hogs	C. Algebra: C1. Patterns and Relationships	C1.1 - identify and describe repeating and growing patterns, including patterns found in real-life contexts
		C1.2 - create and translate repeating and growing patterns using various representations, including tables of values and graphs
		C1.3 - determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in repeating and growing patterns

Activity: Extra Energy Investigation	C. Algebra: C1. Patterns and Relationships	C1.1 - identify and describe repeating and growing patterns, including patterns found in real-life contexts
		C1.2 - create and translate repeating and growing patterns using various representations, including tables of values and graphs
		C1.3 - determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in repeating and growing patterns
Activity: How Smart is Your Smart Board?	Grade 7-12	
Activity: Imagination Station	C. Algebra: C1. Patterns and Relationships	C1.1 - identify and describe repeating and growing patterns, including patterns found in real-life contexts
		C1.2 - create and translate repeating and growing patterns using various representations, including tables of values and graphs
		C1.3 - determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in repeating and growing patterns
Activity: Small Appliance Energy Reliance	D. Data: D1. Data Literacy	D1.2 - collect data from different primary and secondary sources to answer questions of interest that involve comparing two or more sets of data, and organize the data in frequency tables and stem-and-leaf plots
		D1.3 - select from among a variety of graphs, including multiple-bar graphs, 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 stem-and-leaf plots and multiple-bar graphs, by asking and answering questions about the data and drawing conclusions, then make convincing arguments and informed decisions
Activity: Start Me Up!	N/A	
Activity: Take a Look	D. Data: D1. Data Literacy	D1.2 - collect data from different primary and secondary sources to answer questions of interest that involve comparing two or more sets of data, and organize the data in frequency tables and stem-and-leaf plots
		D1.3 - select from among a variety of graphs, including multiple-bar graphs, 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 stem-and-leaf plots and multiple-bar graphs, by asking and answering questions about the data and drawing conclusions, then make convincing arguments and informed decisions
Activity: Total Energy vs Total Cost	Grade 7-12	

Activity: Understanding Energy Efficiency in Your School	Grade 7-12	
Activity: Community Walk	N/A	
Activity: School Energy Audit	Grade 7-12	
Activity: Energy Efficient Lighting	N/A	
Activity: Find the Phantom Load	D. Data: D1. Data Literacy	D1.2 - collect data from different primary and secondary sources to answer questions of interest that involve comparing two or more sets of data, and organize the data in frequency tables and stem-and-leaf plots
		D1.3 - select from among a variety of graphs, including multiple-bar graphs, 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 stem-and-leaf plots and multiple-bar graphs, by asking and answering questions about the data and drawing conclusions, then make convincing arguments and informed decisions
Activity: Home Energy Audit	N/A	
Activity: Watchers and Seekers	C. Algebra: C1. Patterns and Relationships	C1.1 - identify and describe repeating and growing patterns, including patterns found in real-life contexts
		C1.2 - create and translate repeating and growing patterns using various representations, including tables of values and graphs
		C1.3 - determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in repeating and growing patterns
Activity: Back to the Future	N/A	
Activity: Changing Our Ways	N/A	
Activity: Exploring Our Energy Ethics	N/A	
Activity: Once Upon a Bike	N/A	
Activity: Puzzling Over Energy Issues	N/A	
Activity: Ride, Roll and Stroll	N/A	
Activity: Speak for the Trees	Grade 7-12	
Activity: Taking the Lead	N/A	
Activity: Walk a Mile	N/A	