Program: Re-Energy

Grade 8 – British Columbia Science Curriculum Connections

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Activity Name	Organizing Idea	Learning Outcome
Activity: Renewable Energy Sources	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: What is Renewable Energy?	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Build a Solar Car	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Build a Solar Oven	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Construire un Four Solaire	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Introduction to Solar Electricity	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Introduction to Solar Heat Energy	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Solar Energy Transition with Six Nations of the Grand River	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Electrifying the Future of Transportation Guide	**Grade 9-12**	
Activity: Build an Electric Vehicle Model	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Exploring Electric Vehicle Charging Stations	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: History of the Electric Vehicle	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.

Activity: How is Your Community Adapting for Electric Vehicles?	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Planning a Trip in your Electric Vehicle	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Electric Vehicles and Charging Stations with Six Nations of the Grand River	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: What EV Should You Buy?	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Build a Wind Turbine	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Introduction to Wind Energy	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Wind Turbine Simulator	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Build a Hydroelectric Generator	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Introduction to Hydro Energy	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Pumped Hydro Storage	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Build a Biogas Generator	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Introduction to Biomass Energy	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Build a Flywheel Model	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Build a Penny Battery	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Endothermic and Exothermic Reactions	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.

Activity: Energy Storage Match	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Exploring Energy Storage in Your Community	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Exploring How to Make a Battery	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: Heat Transfer Lab	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.
Activity: The Electrostatic Effect	Properties and Behaviours of Light, Protons, Neutrons, and Electrons	Energy can be transferred as both a particle and a wave.