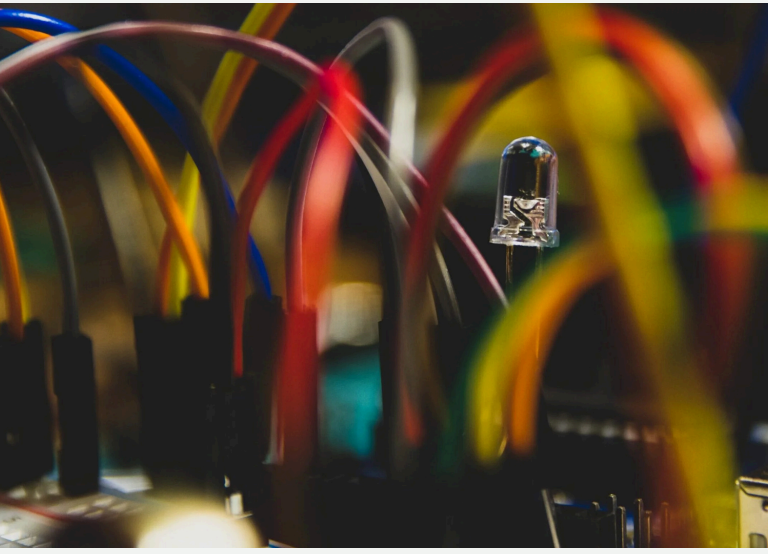
GRADE 12 PHYSICS

QUICK-START GUIDE
ONTARIO CURRICULUM · SPH4C



Lessons and activities at a glance, aligned to the Ontario Grade 12 Physics (College) curriculum. Built to connect electricity and energy transformations to real systems for your students while saving you planning time.

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INDICATOR	LESSON	ACTIVITY
D1.1	National Energy Issues Debate Science of Biofuels, Coal, Geothermal, Hydropower, Natural Gas, Nuclear, Oil, Solar, Wind	Connect to current events and have students argue for or against a "Should the government..." debate prompt. Assign the videos from each lesson as debate prep.
D3.1 D3.2	Play-Doh Electric Circuits Lab	Explore series and parallel circuits in the hands-on Play-Doh lab, then complete the Ohm's Law math extension.
E1.1	The Energy Mix Video Switch On: The Complete Film	Watch both videos and facilitate a class discussion on energy transformations and their impacts.
E2.3 E2.4	Introduction to Wind Introduction to Hydropower	Build working models of wind turbines and waterwheels to investigate energy transformations.
E3.4	Introduction to Electricity Science of Electricity Introduction to Energy Efficiency	Explore how electricity is produced, then use the Computation activity in Science of Electricity to compare the efficiency of different energy systems.
E3.5	Energy Sources Activity Stations	Examine the pros and cons of energy sources, notice energy transitions, and answer critical thinking questions along the way.

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