

History of the Electric Vehicle

Re-Energy
Learning Activity
Grade Level 7-12



Main Objective

Learners will understand the processes behind the changes in popularity of the Electric Vehicle and gain an understanding of the technological changes in Electric Vehicles.

Learning Outcomes

By the end of this activity, learners will:

- Learn about the history of the make and models of various electric vehicles and investigate current trends
- Conduct research to understand the process behind changes in popularity of the Electric Vehicle and gain understanding of their technological changes
- Present their research findings to their class

Length of Activity: 1-2 hours

Step 1: Introduce Electric Vehicle Backgrounder

Step 2: Choose research question

Step 3: Present research findings

Materials Required

- Internet-enabled device
- History of the Electric Vehicle Backgrounder
- History of the Electric Vehicle Worksheet
- Marking Rubric

Activity

Step 1: Introduction Backgrounder

As a class or individually, review the History of the Electric Vehicle Backgrounder and complete the questions in the associated worksheet.

Step 2: Pick Research Question

Choose one of the following two research inquiry questions to conduct research on.

Note: One question focuses on the social and political changes that have led to the increased popularity of the EV, the other looks at cost savings and financial choice.

Research Question 1:

It is clear the economic events and American legislation have had an impact on the rise and demise of the EV. More recently, global climate crisis and natural resource protection has begun to move the EV back into the mainstream. When examining the graphic on slide 8 of the backgrounder, the total number of EV's on the market doubled in one year.

Using your research skills, hypothesize a reason (aside from lower cost) as to why you believe this might have occurred? What events have since played an equally important role in the popularity of the EV?

Research Question 2:

As mentioned in the previous question, cost does play a part in popularity of a vehicle. Using the data from the backgrounder and your research skills, what would the overall most cost-effective new vehicle be for you? Would you choose an EV? Would a hybrid be more cost effective, or an ICE vehicle? In your decision-making process take into account:

1. Incentives: Provincial or Federal
2. Cost to install the technology in your home
3. Cost of vehicle
4. Energy cost vs gasoline
5. Insurance
6. Personal Needs-family size, long trips, etc.

Step 3: Presentations

Present your research findings to the class.

Extension Activity

- Get a first-hand look at the Tesla 3 and learn about its top features by watching this video:

 [Tesla 3 Video Tour](#)

