

# Planning a Trip in Your Electric Vehicle

Re-Energy  
Learning Activity  
Grade Level 7-12



## Main Objective

Now that learners understand how to choose a vehicle for their lifestyle, they are going to plan a trip with an EV. Learners can either use the EV they picked in the last activity for added difficulty or the Tesla Model 3. There are 3 scenarios the learners (or educator) may choose from.

## Learning Outcomes

By the end of this activity, learners will:

- Understand the planning process involved in taking a trip with an electric vehicle
- Present their logistical plans in a visual format

## Length of Activity: 1-2 hours

- Step 1:** Choose a scenario  
**Step 2:** Conduct research  
**Step 3:** Presentation

## Materials Required

- Internet-enabled device
- Map Finder (PlugShare, Tesla, ChargePoint, etc.)
- Charge table (time to charge at various level, see 2019 EV Catalogue)

## Activity

### Step 1: Choose a Scenario

Choose one of the following scenarios for this activity:

**Scenario 1:** Your task is to plan a trip between two locations in Alberta over 200 km using a Tesla Model 3 and present your logistical plan (where to charge, when to charge, time to charge, etc.) to your peers and educator.

**Scenario 2:** Your task is to plan a trip between two locations in Canada over 500 km using a Tesla Model 3 and present your logistical plan (where to charge, when to charge, time to charge, etc.) to your peers and educator.

**Scenario 3:** Your task is to plan a trip between two locations in Canada using the same vehicle that you chose in Buying an EV Activity and present your logistical plan to your peers and educator.

#### Possible Trip Ideas:

- In Alberta: Lethbridge to Edmonton; Calgary to Edmonton; Fort McMurray to Calgary; Vulcan to Kananaskis
- In Ontario: Toronto to Ottawa
- In Quebec: Montreal to Quebec City
- In BC: Vancouver to Victoria
- In Canada: Vancouver to Calgary; Toronto to Montreal; Barrie to Kingston
- Other options: Learners can choose locations, or the educator can put a certain km restriction on the problem (i.e., you must travel at least 300 km between point A and B)

### Step 2: Conduct Research for the Trip

Learners will conduct research to figure out where to stop to charge their vehicles considering the distance and mileage.

### Step 3: Present the Trip Plan

Present the Plans: Learners can choose how to present their logistical plans in any visual format.