

How Far Can you Go??

Record # of miles on a single charge from the video: _____

Locate your home on a map service (Mapquest, Google Maps, etc.)

Using the number of miles on a single charge that you recorded above, plan a round trip from your home to a destination and back home again using a single charge

Record destination location:

Record total number of miles round trip:

Once you get home from your trip, you will need to recharge your electric vehicle. Use the EV Charging Station Locator at <https://www.drivegreen.nj.gov/dg-charging.html> to find the nearest charging station to your home and record below: (Hint: Make sure you maximize the window when it opens on your computer)

EV Charging Station location:

Type of Charging Station (level 1, level 2, or fast charging):

Read about the types of charging stations here:

https://afdc.energy.gov/fuels/electricity_infrastructure.html

For the type of charging station closest to your home, figure out how long it will take to recharge your electric car.

Using the charging station link above, record the speed of charging:

_____ miles of range per _____ minutes of charging

If you want to fully charge your car after your trip, assume you will need 100 miles of range. Calculate how much time it will take using this formula:

Charge time (minutes) = $\frac{\# \text{ miles of range charging} \times \# \text{ minutes of charging}}{100 \text{ miles total range when charged}}$