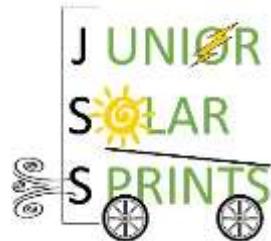


# Drive it Green

Grade(s): 5-8



## Learning & Activity Goals/Objectives

Students will be able to:

- Rank the importance of several car buying considerations
- Discuss fuel efficiency and what it means for the environment and our wallet
- Understand how transportation choices can impact the environment
- Understand that there are other types of fuel that can power motor vehicles

## Overview

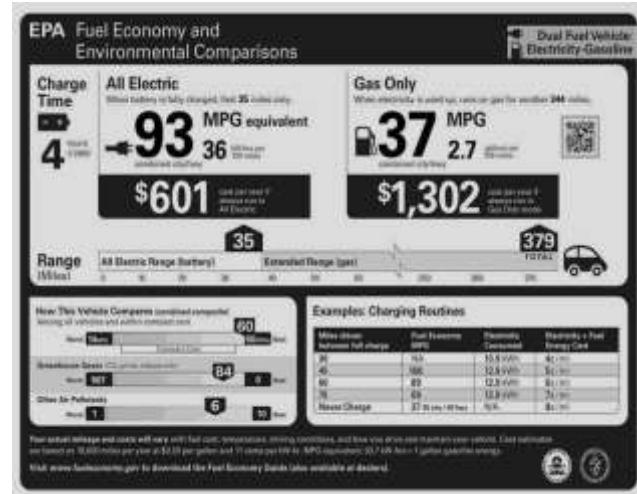
Students start out the lesson by looking at a list of six (6) reasons that a person might consider when purchasing a vehicle (color, style, brand name, fuel efficiency, safety, price) and are asked to put a sticker on the one that they would consider their number one reason to buy a car.

Students are then directed to select a vehicle (sports car, sedan, pick-up truck, etc.) that they will utilize for the remainder of the class period. Students are asked to select their vehicle prior to being given any further information about the activity.

After all students have chosen a vehicle to use for the class they are then told that they will be competing to see which vehicle can travel the farthest on a fixed budget for gasoline.

Students are given a “mock allowance” of \$20 to spend on fuel for their vehicle. They are then asked to calculate how far they will be able to travel using the \$20 worth of fuel.

After students have figured out how many times, if any, they can make the trip to work and home.



If time allows students will then be instructed that they must get the entire class to work and home using the least amount of gas per person. Students will then have to work together to "get a ride" with another classmate or form a vanpool.

What conclusions can students draw about fuel efficiency and environmental impact? How might this information help them when purchasing a car in the future?

## Curriculum Standards

### Health & Physical Education

#### Grade 6

- 2.1.6.A.2
- 2.1.6.D.1
- 2.2.6.A.1
- 2.2.6.B.1
- 2.2.6.D.2

#### Grade 8

- 2.1.8.A.2-3
- 2.1.8.C.2
- 2.2.8.D.1-2

### Science

- 5.1.8.A.1
- 5.1.8.A.2
- 5.1.8.C.1
- 5.1.8.C.2
- 5.1.8.D.1
- 5.2.8.C.2

### Technology

- 8.2.4.B.3

### Life & Career Skills

- 9.1.8.A.2
- 9.1.8.B.[1 & 2]
- 9.1.8.D.3

### Mathematics

- CCSS.Math.Practice.MP4
- CCSS.Math.Practice.MP7
- CCSS.Math.Content.6.NS.B.3

### Social Studies

- 6.3.8.A.1

## Materials Needed

- **Pictures of Vehicles**
- **EPA Vehicle "Window Stickers"**
- **Worksheets**