

SDG 7: Affordable and Clean Energy

High School

Description: Teaches students about fuel economy and environment labels

Lesson Plan: <https://www.epa.gov/sites/default/files/documents/fueleconomyhighschool.pdf>

Highlights:

- Has students research their “dream car” and provide information about that car, including the fuel economy of the car
- Above is a sample fuel economy and environment label for a car, introduces the format of these materials to students so they can understand the fuel economy of their chosen car
 - Blank worksheet versions of this label are available from this lesson plan, so students can fill out their respective labels for their chosen cars
- Introduces and defines concepts such as fuel consumption rate, annual fuel cost, greenhouse gas rating, etc.
 - Gives students the tools to understand the role that car emissions play in energy production as well as its impacts on the environment

Miscellaneous Resources Related to SDG 7

- <https://www.epa.gov/students/whats-label-exploring-fuel-economy-and-environment-middle-school-students>
 - This is a lesson plan for the same fuel economy activity listed above, but for middle school students (6-8)
- <https://www.epa.gov/air-research/air-quality-and-energy-choice-stem-activities-educators>
 - Resource page that provides EPA-created activities such as:
 - “Mobility” board game that teaches students to be thoughtful about their energy choices and the impacts of their choices (grades 6-12)
 - “Generate” board game shows the bigger picture impacts of various energy consumption and production choices (grades 6-12)
- <https://www.youtube.com/watch?v=QqqZZ1fw4EQ>
 - 11-minute long video, intended for use by educators, discussing ways that students can conserve energy in their own lives with activity/homework ideas (K-12)

