
TRANSPORTATION IQ

Student Activity

Take the Transportation IQ survey prior to studying about alternative fuels to find out what you know about vehicles and fuels and the consequences of using them.

Take the IQ survey again after studying about alternative fuels to discover how much you have learned.

- Which of the following are fossil fuels?
 - Petroleum
 - Natural gas
 - Coal
 - All of the above
- Butane, ethane, and propane are natural gas liquids.
 - True
 - False
- A _____ is a chemical energy source that releases energy through combustion.
 - Hot spring
 - Fuel
 - Photovoltaic cell
 - Solar pond
 - None of the above
- Carbon monoxide makes it hard for the body to use:
 - Calcium
 - Oxygen
 - Nutrients
 - All of the above
- Which of the following are good alternatives to burning gas or diesel in our vehicles?
 - Using an alternative fueled vehicle
 - Using mass transit
 - Riding a bicycle
 - All of the above
 - None of the above
- How much of the United States' daily oil supply comes from foreign countries?
 - Over half
 - Less than half
 - Two-thirds
 - One-third
- What fuel is efficient and powerful, yet is considered "dirty"? It is used by heavy-duty trucks, construction equipment, and locomotive engines.
 - Diesel
 - Leaded gasoline
 - Unleaded gasoline
 - Reformulated gasoline
- _____, an alternative fuel, is derived from starches or sugars.
 - Propane
 - Jet fuel
 - Ethanol
 - Methanol
- Hydrogen, in combination with oxygen, can be used in a fuel cell to generate _____ to power a vehicle.
 - Water
 - Electricity
 - Fission
 - Fusion
- What percentage of the fuel used for transportation in the U.S. comes from oil?
 - 63%
 - 50%
 - 97%
 - 100%
- Propane, an alternative fuel, is derived from which of the following?
 - Petroleum
 - Liquefied natural gas
 - Fossil fuels
 - All of the above
- Factors in creating ozone include:
 - Hydrocarbons
 - Sunshine
 - Emissions from vehicles and industrial plants
 - All of the above
 - None of the above
- What part of the body is most immediately affected by the presence of ozone in the lower atmosphere?
 - The brain
 - The heart
 - The lungs
 - The stomach
- A _____ vehicle operates on two fuels, using one at a time.
 - Dedicated
 - Bi-fuel
 - Electric and natural gas
 - Flexible fuel
 - None of the above
- What percentage of petroleum used in the U.S. is imported?
 - 72%
 - 18%
 - 97%
 - 55%
- What amount does America spend each year to import petroleum?
 - \$6 trillion
 - \$60 billion
 - \$600 billion
 - \$60 million
- When I purchase my first vehicle, I will consider purchasing an AFV.
 - True
 - False