Gastimate!

Here's how to play:

Players discuss and develop two math formulas to determine:

- Gallons of gas used by a vehicle traveling a specific distance
- Total distance that can be traveled by a car using a specific quantity of fuel
- Select five favorite cars and list the combined (city/highway) fuel economy using the EPA Fuel economy site: https://www.fueleconomy.gov/feg/findacar.shtml
- Select five cities you would like to visit and find the distance from your city using the distance calculator site: https://distancecalculator.globefeed.com/US_Distance_Calculator.asp

Car or Truck	Combined Fuel Economy (MPG)
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Destinations	Distance from Your City
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Next, Play Gastimate!

Player 1:

- Pick a destination and the car you want to drive
- Using a calculator and the appropriate formula, calculate how many gallons of gas you would use driving to this destination
- Tell Player 2 only your car and destination

Player 2:

- Use your estimating skills and mental math, "gastimate" how many gallons of gas player one will need to reach that destination. Share your Gastimate.

Both Players:

Record both the actual gas used and the gastimate on the score sheet and determine the difference. This is the margin of error. Switch roles. After each player has "driven" three trips, calculate the total margin of error for each player. The lowest total margin of error wins!

Scoreboard – Round _____

Trip One, Player 1: Destination _____ Vehicle _____

Actual Gallons Used by Player 1 _____ gallons
Player 2's Gastimate _____ gallons
Difference (P2 margin of error) _____ gallons

Trip One, Player 2: Destination _____ Vehicle _____

Actual Gallons Used by Player 2 _____ gallons
Player 1's Gastimate _____ gallons
Difference (P1 margin of error) _____ gallons

Trip Two, Player 1: Destination _____ Vehicle _____

Actual Gallons Used by Player 1 _____ gallons
Player 2's Gastimate _____ gallons
Difference (P2 margin of error) _____ gallons

Trip Two, Player 2: Destination _____ Vehicle _____

Actual Gallons Used by Player 2 _____ gallons
Player 1's Gastimate _____ gallons
Difference (P1 margin of error) _____ gallons

Trip Three, Player 1: Destination _____ Vehicle _____

Actual Gallons Used by Player 1 _____ gallons
Player 2's Gastimate _____ gallons
Difference (P2 margin of error) _____ gallons

Trip Three, Player 2: Destination _____ Vehicle _____

Actual Gallons Used by Player 2 _____ gallons
Player 1's Gastimate _____ gallons
Difference (P1 margin of error) _____ gallons

Gastimate Version 2

Plan a trip to any number of cities determine the following:

- Total Mileage
- Total Fuel Used
- Total Cost of Travel