

Student guided sheet: Which car is better for the air?

Name: _____ Partner: _____ Class: _____

Part 1: Read the bars. Press Reset to the starting example. Look at Question 1 and write each car’s total (the number at the end of its bar).

Car	Type	Total g CO ₂ per mile
Tesla Model Y	Electric	
RAV4 Plug-in Hybrid	Plug-in hybrid	
RAV4 Hybrid	Hybrid	
Honda CR-V	Gas	

1. Circle the car with the lowest total. Put a box around the highest.
2. The tan part of each bar is building the car. Which car has the biggest tan part? _____ Why do you think so?

3. The electric car has no tailpipe. Why does it still have a gray “burning” part? _____

Part 2: Move the car. Change the state and write the electric car’s total.

State	Model Y total g CO ₂ per mile
Arizona (starting example)	
West Virginia	
Washington	
Our state: _____	

4. The electric car is cleanest in _____ because _____.
5. It is dirtiest in _____ because _____.
6. Did the gas car’s number change much when you changed states? Why or why not? _____

Part 3: Smog vs. CO₂. Look at Question 2.

7. Which car has the best smog rating? _____ What is its rating? _____
8. Smog hurts the air we breathe nearby. CO₂ warms the whole planet. Which car is best for both? _____

Part 4: Make a recommendation (if assigned). A family in our town drives about 12,000 miles a year and needs an SUV. Set the lab to our state.

9. I recommend the _____ because _____. My evidence is _____.

Exit ticket. Which car is better for the air where you live?

- Claim: _____
- Evidence (use a number): _____
- Reasoning (why?): _____