

Premium Engine-eering

Navigating the Cars of the State Fair

CARS, CRAFTS
AND COMMERCE

QUEST 10
PHYSICS

STATE FAIR OF TEXAS
CURRICULUM

STUDENT EDITION

Recap

You will be going to the State Fair of Texas to consider the choices in vehicles, make notes, and then take that info back to school so you can design the ultimate car.

STATE FAIR MAP



Recall from your discussions during class:

★The following terms and concepts: motion, work, speed, velocity, and acceleration.



Plan Your Route

- ★Make your way to the Auto Show in the Centennial Building and the Automobile Building
- ★Then, if you'd like, go to the Truck Zone as well, behind the Automobile Building.



Optional Materials to Bring

- ★Writing utensil and something to write on
- OR
- ★A way to digitally take notes

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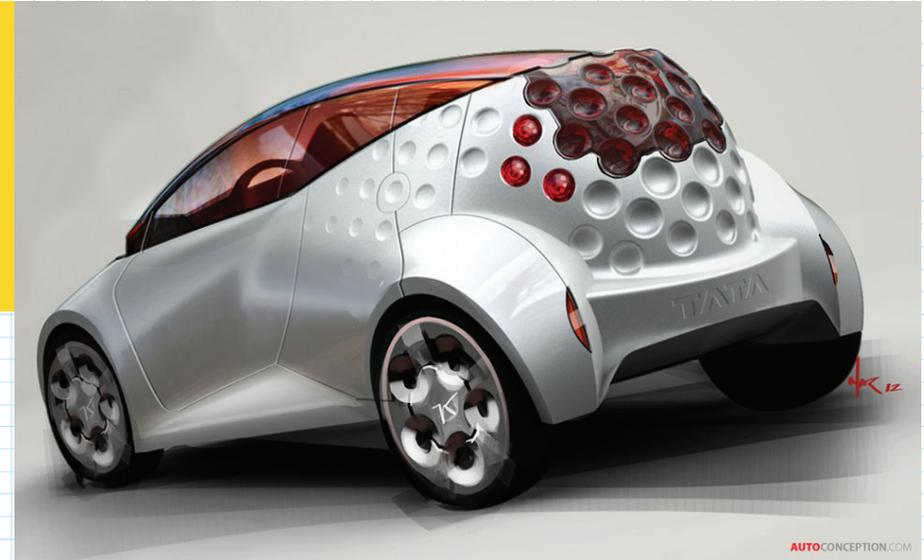
While You're There

You will use information you gather at the State Fair to help you with TWO project goals:

1. Compile data for the vehicles you observed, as a class, and design a new vehicle.
2. Create a multimedia presentation for your new vehicle.

The objective of your visit is to collect data on the acceleration rates, power, and gas mileage of various vehicles.

- ★**PREMIUM ENGINE-EERING:** Investigate the various makes and models of vehicles in the car shows
 - o Use window stickers or talk to the vendors to collect data, including acceleration, horsepower, gas mileage, and engine size for at least 5 vehicles.



Source: <http://www.autoconception.com/exa-tata-and-rca-collaborate-on-automotive-design/>



Back at School

When you return to class following your State Fair visit, you will work on your two projects. See your teachers for more information.