

W7. Electric car Design Poster Project

The class will divide into teams of 4–5 students. Each group must design their own electric car and draw it on a poster, either on A3 paper or digitally. The poster must include the group information (class, names, and nicknames of all members) and explain how the electric car works, its advantages, its disadvantages or problems, any special features, and how efficient or environmentally friendly it is. After completing the poster, each group must create a 1–2 minute video presenting their work. At the beginning of the video, every student must introduce themselves by saying their class and nickname, and everyone must speak during the presentation while explaining the car design and ideas.

Deadline: 2-3weeks (depending on the activities in school)

Score: 10 points max (late submission half points only)

- Poster 5 points
- Video 5 points
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Part 1: Poster Design

Create a poster that shows and explains your electric car.

Poster requirements:

- Draw your electric car
 - You can draw it on **A3 paper** or create it **digitally**
- Include **group information**:
 - Class
 - Group name (optional)
 - Names and nicknames of all group members

Your poster must explain:

- How your electric car works
- The **advantages** of your car
- The **disadvantages** or problems
- What makes your car special (extra features, design ideas, technology, etc.)
- How your car helps the environment or saves energy (efficiency)

You can use:

- Labels
- Short texts
- Diagrams
- Icons or colors
(Be creative, but keep it clear and easy to understand!)

Part 2: Video Presentation

After finishing the poster, your group will create a **video presentation**.

Video requirements:

- Length: **1–2 minutes**
- **Everyone must speak** in the video
- At the **beginning of the video**, each student must introduce themselves by saying:
 - Their **class**
 - Their **nickname**

In the video, explain:

- Your electric car design
- How it works
- Its advantages and disadvantages
- Why your design is interesting or useful

You may:

- Show the poster in the video
- Speak directly to the camera
- Divide the explanation between group members

Examples:

ELECTRIC CAR DESIGN

Central Computer

- Analyze all the data that's sent by different devices. As well as directing to the steering wheel controls, vehicle speed and braking.

- Help get rid of roadblocks. Making it possible to drive through.

Why is your car goods?

- Better for environment.
- Fast and easy home charging.
- The future of transportation.
- It has many convenient equipment, special functions and high security system.

Airbag

- An optional accessory that helps reduce the injury from a car accident and can help prevent from being bumped into objects inside the car.

LIDAR (Light Detection And Ranging)

- Check what is around the car, other cars and pedestrians.
- Read traffic lights and road signs.

GPS

- Specify the location and route.
- Measuring the car speed around.

Electric Power Control Unit (EPCU)



Motor



Reducer



On-board Charger (OBC)



Battery



Handpresso Auto Hybrid Coffee Maker



ORIKAR

Does it have some problems?

- If the battery run out, it will be different to find a charger.
- It takes 8-12 hours for charging (Long charging Time)

FEATURES OF THE CAR

- Have to charging in the home electrical system only 7-8 hours and can travel up to 170 Km.
- Can run at a maximum speed of 85 km/h.
- Can seat up to 4 seats.
- Can float on water
- Have cute and modern look

THE BACK OF THE CAR

► have function that make the car can float on water.

WINDSHIELD

► The windshield is long. Peopl can't see inside the car.

CAR HEADLIGHT

► headlight of the car have two color.

ELETRIC CAR



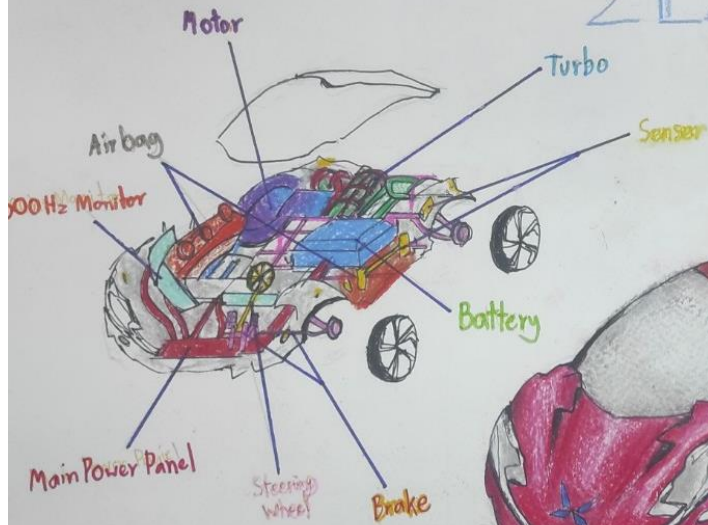
CONTROLLER

BATTERY

MOTOR



ELECTRIC CAR DESIGN



Pros

- No pollution
- It's Quiet
- Long term use

Cons

- None (☺)

Can drive up to 430 km/h
999 horse power

Bullet proof windows

DOPE AF!!

CUSTOM COLORS!!



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WHY IS YOUR CAR GOOD?

- SAVE ENVIRONMENT
- NO OIL STINKING
- HAS HIGH SECURITY SYSTEM
- EASY CHARGING

DOES IT HAVE SOME PROBLEMS?

- CAN'T RUNS VERY FAR
- EXPENSIVE
- IF YOU FORGOT THE BACKUP BATTERY YOUR CAR

ELECTRIC CAR

* SORRY FOR LATE WORK TEACHER ☺

