

ट्रे GEARING TOWARDS ८ THE FUTURE

10TH & 11TH GRADE

DESIGN, CREATE AND BUILD ELECTRICAL COMPONENTS

TEST YOUR ELECTRIC KNOWLEDGE! Here's your chance to implement a feature that you wish all cars had. Design and build a working prototype of an electrical component for any vehicle of any size for the future of transportation.

MUST INCLUDE: Design drawings

Participation options: -Individual -Team of up to 6 students

Present innovative options for electrical components in a vehicle of any size.

Identify 3 key features of the component in a featured drawing.

Reference sources of information to include interviews with experts, reference books, periodicals, websites, etc.

ESSAY

Participation options: -Individual -Team of up to 6 students

2,500-word limit

Describe the details of a future electrical component for a vehicle of any size or type.

Identify 3 key features and describe the design and layout of the component.

4-graphic limit

PRESENTATION

Participation options: -Individual -Team of up to 6 students

Create a PowerPoint presentation and a video of the electrical component for a designed marketing or sales pitch.

Identify 3 key features, describe the design and outline the cost of the electrical component.

Reference sources of information to include interviews with experts, reference books, periodicals, websites, etc.

3D MODEL

Participation options: -Individual -Team of up to 6 students

Build a functioning prototype model of an electrical component for a vehicle or transportation method of any size or type. Identify 3 key features on the entry form.

Create a 360-degree video and take 5 photos (top, left, right, front and back).

Reference sources of information to include interviews with experts, reference books, periodicals, websites, etc.

SUBMISSIONS DUE: 01/03/23



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