

STEMMM RESTORATION PROGRAM

The STEMMM Restoration Program (SRP) gives every student a front seat in automotive engineering, design technology, materials science, and money management. The program blends industry mentorship, professional craftsmanship, and financial literacy while demonstrating how foundational engineering principles lead to modern advancements in performance, safety, sustainability, and design.

The CORVETTE



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1. Full Vehicle Restoration

Students will learn and participate in each major phase:

- Initial assessment
- Disassembly
- Engine restoration
- Bodywork and paint
- Interior restoration
- Electrical and safety systems
- Final assembly and testing

2. THE EVOLUTION: Season 1 - “Back To The Future”

From the 1953 Corvette to the engineering excellence of the 2027 Corvette, students will see how automotive technology has evolved over six decades.

- Episode 1: Back To The Future (The history of Corvette)
- Episode 2: Program introduction (partnership involvement)
- Episode 3–10: Step-by-step restoration process
- Episode 11: Final reveal (release date TBA)
- Episode 12: Touring the country (release date TBA)

Historical & Engineering Comparisons

- Design Evolution: Body lines, aerodynamics, materials
- Powertrain Advancements: Carbureted V8 vs. modern high-output engines
- Technology Integration: Analog gauges vs. digital interfaces
- Safety Innovations: Seatbelts vs. advanced driver-assistance systems
- Manufacturing: Hand-built components vs. robotics and precision engineering

3. Student Engagement & Mentorship

Throughout the program, students will interact with:

- Engineers
- Automotive designers
- Industry entrepreneurs
- Car-culture influencers

Topics Include:

- Career pathways
- Engineering fundamentals
- Automotive design
- Manufacturing technology
- Business and entrepreneurship
- Money management in projects

4. National Touring Showcase

Once restored, the Corvette will go on a national STEMMM Tour:

- High schools
- Colleges
- Auto shows
- Other relevant events

The tour will include:

- Live presentations
- Student speakers
- Interactive STEMMM workshops
- Guest appearances

5. Program Outcomes

Students will gain:

- Hands-on engineering experience
- Real-world automotive restoration skills
- Professional mentorship
- Industry connections
- Project-based learning for resumes and college applications
- National exposure through the touring showcase
- A deeper understanding of STEMMM career pathways

6. Program Deliverables

- Fully restored 1968 Corvette
- 12-episode video series
- Student engineering portfolios
- National touring schedule





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