

A LEGACY EV REPORT

# WHY THE FUTURE IS STEM

5 SKILLS EVERY STUDENT NEEDS FOR TOMORROW'S CAREERS



CAPTAIN OBVIOUS STATEMENT:

# THE WORLD IS CHANGING...FAST.

Artificial intelligence is reshaping industries, autonomous vehicles are becoming mainstream, and entire fields like renewable energy and robotics are growing at record speed. The reality is simple: the jobs of tomorrow may not even exist yet.

So how do we prepare students for careers that haven't been invented? The answer isn't teaching specific tools or technologies, it's equipping students with timeless skills: curiosity, creativity, collaboration, critical thinking, and confidence.

At Legacy EV, we believe the best way to build those skills is through hands-on, project-based learning. That's why we developed the EV Innovators Club, a turnkey program where students design, assemble, and test their own electric go-karts while learning the STEM concepts that power the real world.

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THE LEGACY EV  
CURRICULUM TEAM

**LEGACY**  
**EV**



## STEM CAREERS

# WHY EARLY STEM MATTERS

- Research shows that career interests often take root in middle school. Early exposure to STEM dramatically increases the likelihood of students pursuing related careers.
- According to the U.S. Bureau of Labor Statistics, STEM jobs are projected to grow nearly twice as fast as non-STEM jobs over the next decade.
- By 2030, the U.S. will need over 100,000 trained EV technicians to meet industry demand.



For students, these trends highlight opportunity. For educators, they highlight urgency. By sparking curiosity early, schools can set students on pathways to thriving careers in fields that don't even exist yet.

The EV Innovators Club was built for this moment.



Designed by former middle and high school teachers, it gives students an accessible, fun, and deeply engaging way to experience science, technology, engineering, and math not in theory, but in action.

**EV  
INNOVATORS  
CLUB**

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**THE SKILLS**

**THE 5 SKILLS  
EVERY STUDENT  
NEEDS FOR  
TOMORROW'S  
CAREERS**



- 1. CURIOSITY**

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- 2. CREATIVITY**

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- 3. COLLABORATION**

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- 4. CRITICAL THINKING**

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- 5. CONFIDENCE**

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# 1 CURIOSITY

EV  
INNOVATORS  
CLUB

Tomorrow's breakthroughs start with today's questions. Encouraging students to wonder *why* and *what if* builds the foundation for discovery.

**IN PRACTICE WITH EV INNOVATORS CLUB:** Students make predictions in their logbooks before wiring circuits or testing kart components, then compare their outcomes to their hypotheses. It's not about getting it "right", it's about learning to ask better questions.

**SNACKABLE STAT:** STUDENTS ENGAGED IN PROJECT-BASED LEARNING SHOW A 63% INCREASE IN RETENTION COMPARED TO LECTURE-BASED LEARNING (EDUTOPIA).



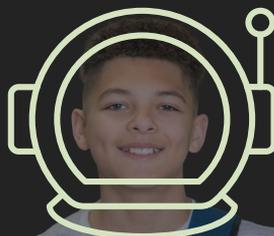
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## 2 CREATIVITY

The jobs of tomorrow will demand innovative solutions. Creativity in STEM isn't just about art, it's about approaching challenges in unexpected ways.

**IN PRACTICE WITH EV INNOVATORS CLUB:** Students design and tune their karts for performance, experimenting with torque, efficiency, and gearing in the EV Innovators app. Each team finds its own unique path to success.

**SNACKABLE STAT:** 91% OF EMPLOYERS SAY THEY VALUE CREATIVITY AND PROBLEM-SOLVING MORE THAN SPECIFIC TECHNICAL SKILLS (WORLD ECONOMIC FORUM).



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# 3 COLLABORATION



No future career is built alone. Teamwork is critical, whether in engineering, healthcare, or space exploration.

**IN PRACTICE WITH EV INNOVATORS CLUB:** Students take on defined roles like Crew Chief, Engineer, or Technician. Each student contributes to the team's success while practicing communication, accountability, and leadership.

**SNACKABLE STAT:** TEAM-BASED PROJECTS INCREASE STUDENT ENGAGEMENT BY OVER 30% COMPARED TO INDEPENDENT WORK (AMERICAN SOCIETY FOR ENGINEERING EDUCATION).

# 4 CRITICAL THINKING

Data is everywhere. Tomorrow's leaders must be able to analyze, interpret, and act on information.



**IN PRACTICE WITH EV INNOVATORS CLUB:**

Students collect and record test results in their logbooks, evaluate efficiency trade-offs, and apply math and physics concepts directly to real-world problems. They don't just consume knowledge, they make sense of it.

**SNACKABLE STAT:**

STUDENTS IN HANDS-ON STEM PROGRAMS SCORE 20% HIGHER ON PROBLEM-SOLVING ASSESSMENTS (NATIONAL SCIENCE TEACHING ASSOCIATION).



# 5 CONFIDENCE

More than anything, students need to believe they can shape the future. Confidence turns curiosity into action and prepares students to tackle challenges head-on.

**IN PRACTICE WITH EV INNOVATORS CLUB:** By the end of the program, students see a fully functional kart that they built themselves. That achievement fuels self-belief: "If I can build this, I can build anything."

**SNACKABLE STAT:** STUDENTS WHO PARTICIPATE IN STEM COMPETITIONS OR PROJECTS ARE 3X MORE LIKELY TO PURSUE STEM CAREERS (NATIONAL SCIENCE FOUNDATION).

## WHY PROJECT-BASED LEARNING WORKS

Traditional lectures can explain how electricity flows through a circuit. But project-based learning lets students feel it through sparks, wheels spinning, and real results they can measure.

That's why EV Innovators follows the 5E learning model (Engage, Explore, Explain, Elaborate, Evaluate) across its 15-lesson curriculum. Students start with curiosity, then build and test models before applying those concepts to a real electric kart.

This approach connects the dots between abstract classroom concepts and tangible, real-world systems. It shows students that STEM isn't just theory, it's the building blocks of the world around them.



# CONCLUSION ✓

We can't predict the jobs of the future. But we can prepare students with the skills to thrive in any future.

Curiosity. Creativity. Collaboration. Critical Thinking. Confidence. These are the foundations of success and they're built through experiences that are hands-on, engaging, and connected to the real world.

[ That's the vision of the EV Innovators Club: empowering students to build, test, and innovate today, so they can lead tomorrow. ]

## THE FUTURE IS WAITING.

## LET'S START HERE.

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