



ACADEMICS

STEAM program



Just like a compass helps travelers stay on course, our STEAM program equips students with the tools and mindset to explore, create, and move forward with purpose.

At the heart of our program are the four C's—Creativity, Collaboration, Communication, and Critical Thinking. These skills act as a compass in a rapidly changing world, helping students navigate challenges, explore new ideas, and grow into confident problem-solvers.

The purpose of our STEAM initiative is to foster curiosity, hands-on learning, and real-world thinking. Students are encouraged to ask questions, test solutions, learn from failure, and design with empathy—skills that extend far beyond the classroom.

HIGHLIGHTS FROM THIS YEAR'S JOURNEY

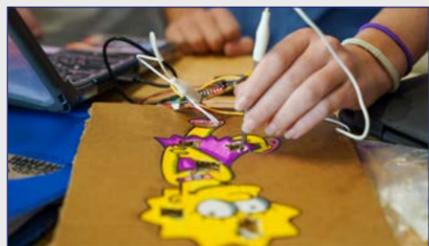
This school year has been full of exciting STEAM experiences that have empowered students to take ownership of their learning. Here are just a few highlights that show how students applied their skills and imagination:

- **3-D Printed Artifacts in Bible Class:** In a unique collaboration between STEAM and 6th-grade Bible, students studied the structure and symbolism of the Tabernacle and brought their learning to life by designing and 3D printing replicas of its sacred artifacts. This cross-curricular project deepened understanding and sparked meaningful connections between faith, design, and history.
- **Hands-On Digital Fabrication:** Students across grade levels learned to use 3D printers and laser cutters to transform their designs into tangible creations. From custom-designed keychains and bookmarks to flat-packed chairs students developed practical skills and pride in their work.
- **Coding and Robotics Challenges:** Through projects with Sphero robots and micro: bits, students practiced logical thinking and teamwork. Whether solving mazes, simulating animal behavior, or connecting movement to literature, these challenges made coding both meaningful and fun.
- **EcoColumns and Environmental Learning:** In our 7th grade science-integrated STEAM unit, students designed and built their own eco-columns—small, self-contained ecosystems—to explore how energy flows and matter cycles through natural systems. These hands-on experiments connected science concepts to real-world environmental awareness.
- **Designing for Others:** Students were challenged to use the design process to create projects that serve others. From personalized gifts for school staff to solving classroom problems, students discovered how design can build connection and community.

CHARTING THE PATH AHEAD

As we prepare for a new school year, we're excited to expand our focus on design thinking, deepen cross-curricular projects, and continue providing students with real-world learning experiences.

Our STEAM program is more than just science and tech—it's a mindset. It's about helping students discover who they are as learners, thinkers, and creators. We are deeply grateful to our families, staff, and community stakeholders for supporting this journey.



DUAL enrollment

Dual enrollment allows high school junior and senior students to earn both high school and college credit simultaneously by taking college-level courses. In partnership with Chattanooga State Community College, our school launched its dual enrollment program in the 2024–2025 school year with five course offerings. The program quickly gained popularity, with over 40 students participating in its first year. Because of Tennessee's Dual Enrollment Grant Program, our high school students who live in the state of Tennessee were able to participate in the dual enrollment courses and receive up to five college courses for free. Due to the strong student interest and success of the initial launch, we are expanding the program with additional course offerings for the 2025–2026 school year.

BBS dual enrollment program quickly gained popularity, with over 40 students participating in its first year.



SOAR program

Boyd-Buchanan School is committed to supporting students with a variety of unique learning needs across grades PK–12 through a Christ-centered approach to academic support. We offer two distinct programs designed to meet students where they are and help them grow into confident, independent learners. Our **Academic Coaching** program serves middle and high school students with documented learning disabilities by equipping them with tools and strategies to strengthen executive functioning skills such as organization, time management, study habits, and self-advocacy. Academic Coaches work closely with classroom teachers to ensure personalized support and accountability. For students who require more structured and targeted intervention, our **SOAR program** offers individualized educational plans, goal-setting, and differentiated instruction in a nurturing environment. SOAR supports learners in grades PK–12 with documented learning disabilities through services such as pre-teaching and re-teaching of core content, progress monitoring, and close collaboration with families and faculty. Both programs aim to prepare students for post-secondary success while fostering a love of learning with a supportive school experience.

MELISSA CONN | DIRECTOR OF SOAR

