

FREE to Alabama schools with grades 5-9. Schools and organizations serving these age groups can sign up for this program at www.LearningBlade.com/AL.



STEM GAME CHANGER



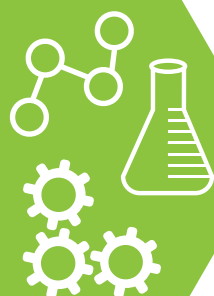
The funding for this project is a joint venture of the Alabama Department of Commerce, the Governor's Office and The Boeing Company.



WHAT IS LEARNING BLADE?

Learning Blade is an online, supplemental STEM career awareness system:

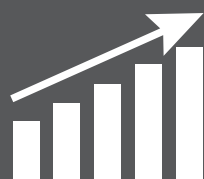
- Builds awareness and interest in STEM Careers
- Demonstrates the relevance of academics to careers
- Helps prepare students with the required academic skills
- Aligns to all states' middle school standards



WHY LEARNING BLADE?

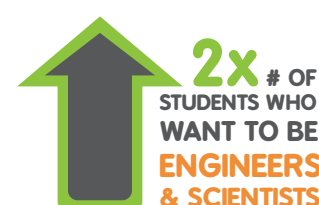
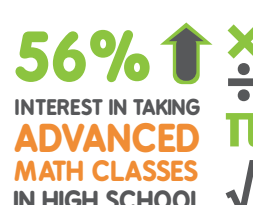
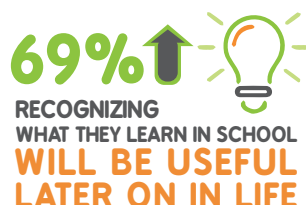
Learning Blade addresses a major reason students do not pursue STEM:

- In a recent survey, 42% of US adults said they would have pursued STEM if they had better understood the career path
- Studies indicate 94% of students make career-related decisions in middle school
- Career awareness is a necessary part of an effective STEM strategy



OUR RESULTS!

Learning Blade is proven to increase STEM career awareness and interest:



Request a free demo at:

www.LearningBlade.com

@LearningBlade 423-521-2309

"The Learning Blade program is a tremendous asset in my STEM program. Learning Blade exposes the students to real-life applications of math and science with problem-based missions to complete. After trying different supplemental curricula, Learning Blade is by far my students' favorite."

-Jennifer Ferebee, Kenwood Middle School, TN

LEARNING BLADE MISSIONS

Learning Blade's 12 missions introduce students to over 100 STEM careers and technologies.

Mission	Description	Career Clusters
Dolphin Rescue	Help rescue rehabilitate an injured dolphin, including creating an artificial prosthetic tail	Biomedicine, Marine Science
Energy Sources	Evaluate alternative or upgraded energy sources for a city that currently has an old coal-fired power plant	Energy Production, Environment
Entrepreneurship	Set up a new business with a focus on entrepreneurship	Finance, Business
Flu Outbreak	Look at how health and IT professionals can use data warehousing and analysis to predict flu outbreaks using GIS and social media data	Information Technology, Disease Management
Fresh Food	Consider methods to increase production of local foods in a community	Agriculture
Hack Attack	Learn about methods to create and protect a website, apps and social media after a school's website and media are hacked	Computer Science
Haiti Orphanage	Design and build an environmentally-sound orphanage for children left homeless by an earthquake in Haiti	Construction, Sustainability
Heart Surgery	Conduct heart surgery and therapy for a child with a heart defect; evaluate the use of artificial hearts or heart components	Medicine, Healthcare
Lightweight Aircraft	Design a lightweight and easily maintained aircraft for distant missions	Lightweight Metals Manufacturing
Manufacturing Concept	Use modern manufacturing techniques to design and build a new concept car	Advanced Manufacturing
Rescue Robots	Explore technology and techniques used for robotics design, such as sensors, electrical circuits, industrial design and computers	Electronics, Computer Science
Transportation Congestion	Evaluate new transportation methods for a city with traffic congestion problem	Transportation

ONLINE MISSIONS

Students engage in self-paced, interactive online lessons that introduce new careers and technologies and demonstrate the relevance of science, math and ELA skills. Lessons are in the context of science, math, English and social studies, and are aligned to state and national academic standards.



ADDITIONAL RESOURCES

MISSION CHALLENGES

Hands-on activities



3D PRINTING MAKER QUESTS

3D printing lessons



STEM4PARENTS

Parent-ready handouts

