

TGR LEARNING LAB

FIELD TRIP CATALOG

2025-2026 EDITION



TGR Learning Lab offers one-day field trips for 4th–12th graders that feature hands-on, project-based STEAM workshops. Our programs are designed to expand students’ skills and expose them to new subjects, college readiness and career possibilities.

**We invite your students to
experience all the Lab has to offer!**



**READY to
schedule a trip?**

Reach out to Becca Lehr at
rlehr@tgrfoundation.org

 **TGR**
LEARNING LAB

Introduction to....

NEW!

Foam-Tastic Science

4th Grade

Students mix, react, and watch chemistry explode into foam as they explore catalysts, reaction rates, and energy in action. This hands-on experiment makes chemical reactions exciting and unforgettable.

**NEW!**

Pin It to Win It: Exploring Force and Motion!

4th Grade

Students roll, test, and experiment with bowling balls on different surfaces to see how friction impacts motion. Force, speed, and texture come alive in a fun, interactive way!

Food Chemistry

5th-8th Grade

Taste, test, and experiment! Explore how pH affects flavor and preservation, learn about acids and bases, and discover the science behind your favorite foods through hands-on challenges.

Circuitry

5th-10th Grade

Learning can be electric! Dive into electrical concepts and tackle hands-on challenges to build circuits and explore how everyday electrical systems work.

Rocketry

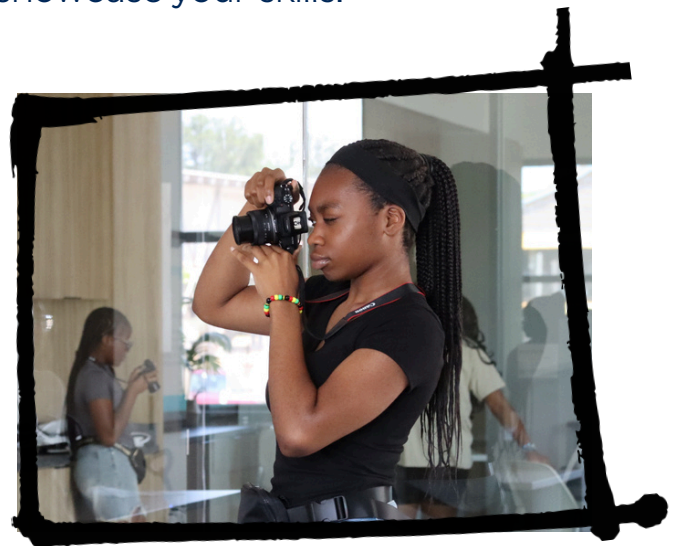
5th-12th Grade

Discover the forces that make rockets soar—thrust, drag, lift, and weight! Design your own rocket and blast off into a thrilling competition to see who flies the farthest.

Digital Photography

5th-12th Grade

Capture the world like a pro! Learn the secrets of composition—symmetry, texture, and more—then snap stunning shots with a professional camera to showcase your skills.



Microbiology

6th-12th Grade

Meet the microbes! Learn how tiny organisms impact health and disease, then create a “Wanted” poster for your chosen microbe, showcasing its effects, transmission, and treatments.

NEW!

Invisible Science: Programming Sensors to Investigate the Air

6th-12th Grade

Uncover what you can't see! Program a Databot to detect hidden elements in the air, run experiments, and learn how data drives health and safety decisions.

Design and Entrepreneurial Thinking

6th-12th Grade

Turn ideas into products! Explore 3D design and marketing, then create your own custom Croc Jibbitz charm and pitch your plan to sell it.

NEW!

The Science of Speed: Biomechanics & Reaction Time

6th-12th Grade

Discover what makes athletes fast! Test your reaction time, jump height, grip strength, balance, and speed. Act as a sports scientist—analyze your data and learn how the body creates power.



NEW!

The Art of Persuasion: Design, Media, and Messaging

6th-12th Grade

Unlock the secrets of influence! Explore how media shapes what we think, feel, and do through Logos, Ethos, and Pathos. Analyze real ads, then team up to create your own persuasive masterpiece.

Epidemiology

8th-12th Grade

Become a disease detective! Track the spread of influenza, analyze data, and propose solutions to stop an outbreak in this real-world health challenge.

Hematology

9th-12th Grade

Step into the lab and uncover the secrets of blood! Use centrifuges, analyze samples, and diagnose patients as you learn how hematology saves lives.

Additional opportunities for Grades 9-12



JOIN A TEEN CAREER READINESS **FIELD TRIP**

Get ready for a day that's part challenge, part adventure, and all about **YOUR FUTURE**.

- Start with the **Time to Thrive** challenge, racing the clock to solve time-management puzzles with your team.
- Then, take a **tour of the TGR Learning Lab**—packed with cool STEAM tech (3D Printers, T-Shirt Making Machines, Laser Engravers and Drones), creative spaces, and resources to help you crush your college and career goals.
- Wrap it up with two hands-on activities: discover careers that fit your lifestyle using the Find Your Grind platform and take on a **mini-golf challenge** where your score combines putting skills and career knowledge.

It's teamwork, tech, and a little friendly competition—all in one awesome day.

PARTNER FOR AN **INDUSTRY DAY**

Join us for an inspiring experience where we connect students with leading local companies and open doors to exciting career possibilities across diverse industries.

Schools provide transportation to the Learning Lab for a dynamic half-day program (9 a.m – 12 p.m) featuring:

- **Career Panel:** Hear firsthand from professionals about their journeys and insights.
- **Interactive Breakout Sessions:** Dive deeper and explore real-world applications.
- **Networking Lunch:** Build connections with industry experts and peers.

 267-900-3970

 [Philadelphia.tgrlearninglab.org](https://philadelphia.tgrlearninglab.org)

 @TGRLL_philadelphia

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