



SparkLab

Where Science Sparks Curiosity

SparkLab STEM Programs


Hands-On STEM Enrichment for Philadelphia Youth



Expanding Access. Building Confidence. Sparking Curiosity.

 **Kala Bard** — Program Director

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 (610) 281-0500

 www.sparklablearning.com



Scan to see
programs
in action!



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What We Offer



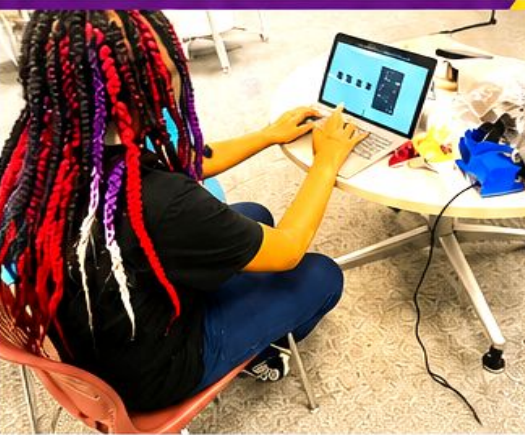
Robotics & Engineering

- ✓ Hands-on building, coding, and design challenges
- ✓ Real-time testing and problem-solving
- ✓ Focus on how systems move, function, and improve



Live Science Labs

- ✓ Interactive experiments across chemistry, physics, and environmental science
- ✓ Observation, prediction, and real-world connections
- ✓ Emphasis on curiosity and scientific thinking



Structured, Role-Based Learning Model

Students participate in active, team-based learning where roles are assigned to ensure engagement, accountability, and collaboration.

- **Robotics & Engineering:** Build, coding, design, testing, and documentation roles
- **Live Science Labs:** Lead Scientist, Lab Assistant, Materials Manager, and Research/Documentation roles

➔ **Every student has a responsibility—no passive participation.**

Students document their work through photos, videos, and reflections—reinforcing learning and capturing progress.

Student Outcomes



Problem-solving & critical thinking



Collaboration & teamwork



Confidence in STEM learning



High engagement through hands-on participation



Real-world STEM process exposure



Early exposure to STEM career pathways

Who We Serve

- ✓ Grades K–12, with programming tailored by age group and experience level
- ✓ Designed for mixed experience levels
- ✓ Ideal for rec centers, schools, and community-based programs



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Aligned with Youth Development & OST Priorities



Expanding Access to STEM

- ✓ No prior experience required
- ✓ Inclusive, beginner-friendly approach
- ✓ Designed to engage underrepresented students



High-Engagement Learning Model

- ✓ Fully hands-on, participation-driven sessions
- ✓ Structured to minimize disengagement
- ✓ Adaptable for mixed-age groups



Real-World Skill Development

- ✓ Problem-solving and critical thinking
- ✓ Collaboration and communication
- ✓ Exposure to real STEM workflows and careers



Flexible Program Delivery



After-school programs



Weekend STEM programs



Summer programming



Pilot program opportunities



Current Initiative

Preparing **free pilot STEM sessions** in Southwest Philadelphia to expand community access and build local partnerships.





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Partner With SparkLab

Partnership Options



Recreation center programming



School-based enrichment



After-school & weekend STEM programs



Summer & OST programming



Pilot program collaborations



What SparkLab Provides

- ✓ All program materials and equipment
- ✓ Structured, ready-to-implement lessons
- ✓ On-site instruction and facilitation
- ✓ Engaging, student-centered learning environment

Site Requirements



Tables and seating



Basic Wi-Fi access



Open indoor space

Bring SparkLab to Your Site!



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