

STEM SCOUTS®

SCIENCE
TECHNOLOGY
ENGINEERING
MATH

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Q: Why STEM?

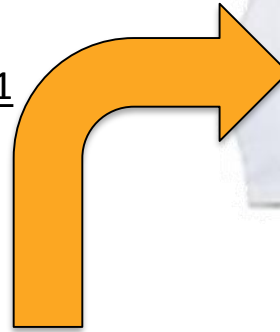
A: A Major Need & Kids Want It!

- Kids have a larger variety of interests
- Smaller adult / student ratios (1:4)
- Integrate Character, Scout Oath and Law into Curriculum
- Gain transferable life-long skills
- Expand horizons and critical thinking skills
- Build self-confidence in trying new things and taking risks
- Use the Scientific Method and Engineering Design Method
 - Evaluate problems, research solutions, test solutions, and repeat.
- Leadership & Teamwork
- Hands-on Fun!



Basic Need to Knows

- Registration
 - \$250 for Full Program, 22 weeks
 - 5, 4-week modules
 - \$200 for Spring Program, 14 weeks
 - 3, 4-week modules
 - \$36 for adults
- Elementary: 3rd – 5th 1st – 5th in fall of 2021
- Middle: 6th – 8th
- On Average 12 – 18 Scouts in a lab
 - Uniforms are T-shirt, Lab Coat, or Polo
 - Awards are digital and lanyard with key tags after completion of module



Character Code & Virtues

Virtues

I promise to

Serve and Lead with Integrity, to

Challenge Myself to Dream and Discover, and to

Guide my Conscience to

Build a Better World



Character Code

A STEM Explorer is:

Curious

Kind

Honest

Fair

Inclusive

Optimistic



2020 – 2021 Season Overview

Elementary Modules

Biology and Life on Earth
(Biology)

Earth Sciences
(Geology, Oceanographer,
Meteorology)

Astronomy
(Astronomy)

Magnetism
(Magnets)

Human Anatomy
(Anatomy)

90 minute, hands on meeting!

2020 – 2021 Overview

Middle School Modules

Flames/Combustion
(Chemistry)

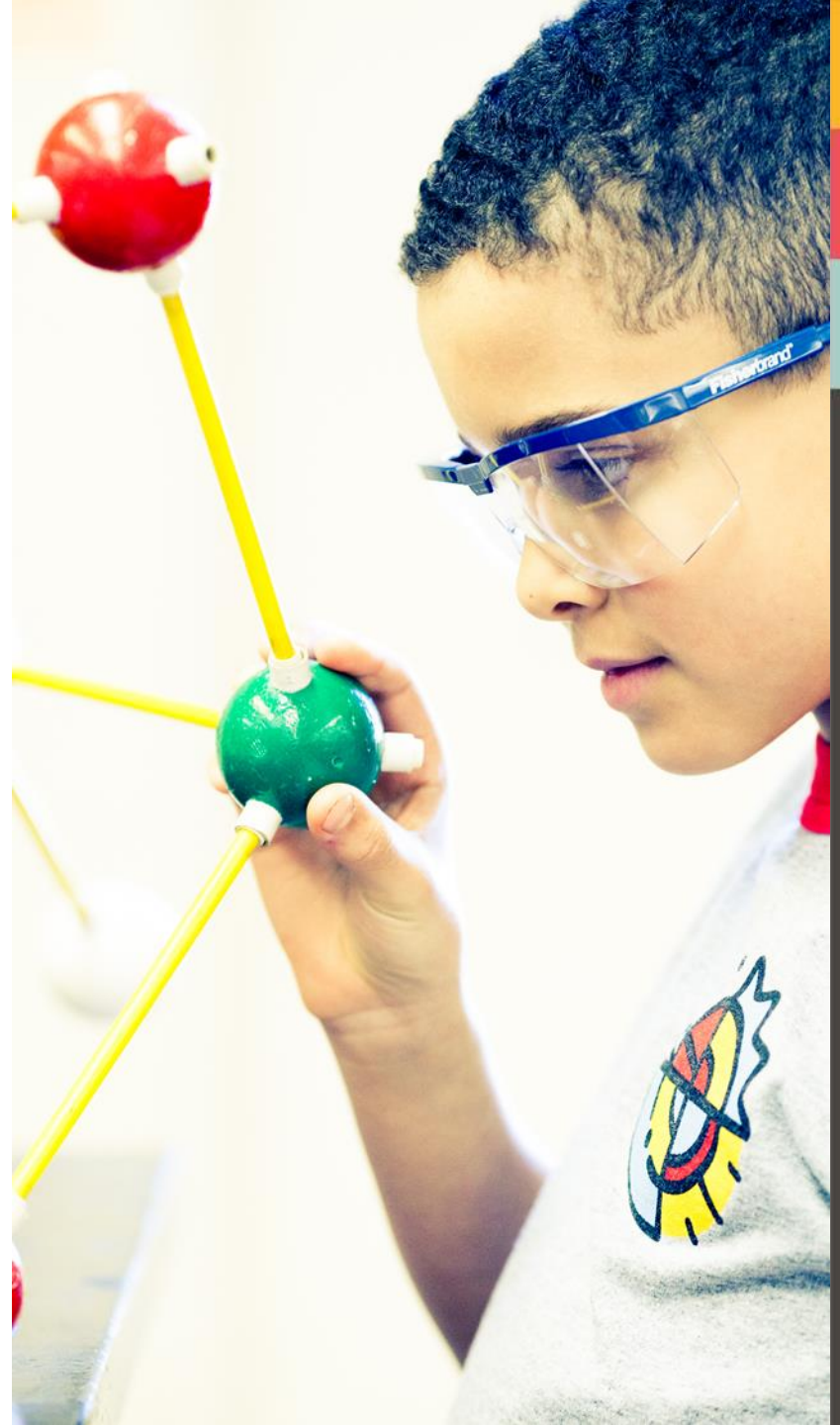
Forensics
(Forensics)

**Film, Pinhole Camera, Sound Effects,
Video Shooting**
(Technology)

Mobile Creation
(Mobile Technology by WozEd)

Spheros Robots
(Robotics)

90 minute, hands on meeting!



Customer Friendly Platform for Parents, Volunteers, & Lab Managers

- Interactive website www.stemscouts.org
- Online registration and payment on portal
- **Digital curriculum** – includes leaders' guides and resources
- **Supplies shipped directly to leader** = No trips to stores to purchase supplies!
- Safety--Adult leader training (includes—Youth Protection Training)
- Registration Fee of \$200-250 annually includes all supplies

STEM Scouts Timeline



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2015 – 2019 – Pilot Phase

October 2019 – National Executive Board Meeting Approved
STEM to go from Pilot to National Program

January 2020 – **Announce** Pilot to Program Launch

May 2020 – **Promote** at National Meeting

May 2020 – October 2020 – **Enroll** New Councils

January 2021 – July 2021 – **Onboard** New Councils

July 2021 – December 2021 – **Enroll** Youth in Program

HMC Locations

- Community UCC in Exeter – Elementary & Middle School Labs
- St. Joseph Parish – Frackville – Elementary & Middle School Labs
- Trinity Academy – Shenandoah – Elementary
- Birdsboro Community Center - Elementary
- Lauer's Park Elementary – Reading City
- Millmont Elementary – Reading City
- 16th & Haak Elementary – Reading City
- Amanda Stout Elementary – Reading City
- St. Margaret's Elementary & Middle School – Reading City
- Current Total STEM Scouts - 170



District Collaboration to Ensure Growth

Back and Forth Information Sharing

- Administration Meetings
 - 2 people (DE & STEM)
 - Talk about STEM, Cubs, Scouts BSA, Exploring
- Hot Leads

Better Knowledge of STEM Program

- Attend a Lab meeting
- Attend a signup event
- Carry STEM Info Sheet with you
- Not an Expert, just know enough to be dangerous...

Family of Scouting

- All Charter Partners should have Cubs, Scouts BSA, Venturing, and now STEM
- What charter partners do you currently have that may be open to starting a lab?

How Do We Make This Work ?

Boy Scouts of America

- Become known as a leader in:
 - STEM
 - Workforce Readiness
- Works with STEM consortiums and Eco-systems around the nation--schools, museums, and communities.

We Could Use Your Help!

- Will you be a **STEM Advocate**?
- Share STEM with others inside and outside of Scouting.
- Support STEM Scouts.

Questions??

Concerns?

Thank You!