



CAMP 2016

**Find inspiration, fun and curiosity.
Each week a new camp; a unique science topic.
Learn fundamental science concepts as you
experiment, explore, and create all week.**

**STEAM Camps are open to students entering 5th-9th grade in Fall of 2016.
Limit of 30 youth/ class.**

Camps at St. Peter and St. Paul Anglican Church

3900 Morris Lane, Arlington, TX 76016

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| June 6-10 | Plants to Plastics |
| June 13-17 | Gears, Pulleys and Levers |
| June 20-24 | Creative Writing |
| June 27-July 1 | Crime Scene Investigators |

All Classes 9am-4pm

Extended hours

8am-9am and 4pm-6pm

Camps at St. Martins-in-the-Fields Episcopal Church

223 Pearson Blvd, Keller, TX 76248

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| July 11-15 | Gears, Pulleys and Levers |
| July 18-22 | Plants to Plastics |
| July 25-29 | Creative Writing |
| August 1-5 | Crime Scene Investigators |

See website for pricing and forms

www.STEAMAcademyTX.org

817-964-7783

**THIS ORGANIZATION AND ITS ACTIVITIES ARE NOT RELATED TO OR
SPONSORED BY THE MANSFIELD INDEPENDENT SCHOOL DISTRICT.**

Creative Writing There's a story in all of us – but maybe, we don't know how to get it out. Have you been writing journals; do you want to take your creative technique to the next level? In this camp you will learn how to create your characters, create a fun world, use individualized themes giving depth to your writing and much more. Over the course of the week, you will craft a children's book or begin a teen book using what you have learned. You will learn bookbinding and illustrations. All campers must bring a laptop with the complete Microsoft Word 2013 Suite including Publisher. Optional, also include Photoshop for illustrations. Basics will give youth confidence for writing of all types.

Educational Benefits:

- Communicate clearly
- Improve self esteem
- Practice word processing and publishing skills
- Art of bookbinding
- Interact creatively with technology
- Creative Problem Solving and Teamwork

Crime Scene Investigators, Forensics Campers will learn to become Crime Scene Investigators during actual crime scene setups! Campers will learn how law enforcement professional solve crimes and meet real professional Crime Scene Investigators, K-9 Handlers and Forensic Pathologists (*Sometimes the professionals are not able to come, due to their workload*). You'll use the tools used in the field to collect evidence. Campers will learn how a crime is actually solved and learn how Biology, Chemistry and Physics play a major role in the investigation!

Crime Scene Investigators summer camp will teach students to analyze forensic data by integrating fundamental concepts in biology, chemistry and physics. Students will learn to gather and analyze information from fingerprint patterns, polygraphs, DNA, blood splatters, bite marks, biometrics, and ink chromatography. At the end of the week, campers will form their own CSI teams and use the skills and techniques they have learned to tackle a crime scene and identify a suspect.

Sample Projects: Crime scene Analysis, Blood Analysis; Fiber, Handwriting, Fingerprinting, and DNA Analysis!

Educational Benefits:

- Communicate clearly
- Improve self esteem
- Attention to details
- Inquiry, critical thinking skills
- Interact creatively with technology
- Creative Problem Solving
- Teamwork

Plants to Plastics When plastic items are thrown in the trash, they can quickly pile up in landfills and create a big mess! Use your chemical engineering skills to explore problems created by traditional plastic materials and engineer bioplastics—plastics made from plant-based materials—as a potential solution to current plastic problems. Build visuals, collect data, design and engineer new bioplastics. What does this have to do with clean water? Professionals to present problem and walk through potential solutions.

Educational Benefits:

- Communicate clearly
- Improve self esteem
- Collect and assess data
- Explore the problem
- Interact creatively with technology
- Creative Problem Solving and Teamwork

Gears, Pulleys, and Levers – Design and build with machines Campers will learn to utilize machines for advantage and play. Gears, Pulleys, and Levers summer camp is geared toward stimulating the creativity and ingenuity of the young engineer. Campers will learn about simple machines, find the physics behind their mechanics and why that is an advantage, and then combine them to perform complex processes. The week will begin with a few projects, such as building catapults and optimizing the effectiveness of pulleys and gears, and will culminate with a Rube-Goldberg machine competition between teams of students.

Educational Benefits:

- Communicate clearly
- Improve self esteem
- Practice creating simple machines
- Engineer and build complex machines
- Interact creatively with technology
- Creative Problem Solving and Teamwork

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