

Application

First 30 Applications will receive a place in the camp. .

Full Name (print) _____
Address _____
City, State, ZIP _____
County _____ Phone _____
T-Shirt Size _____ Grade 2013-2014 _____
Transportation needed Yes _____ No _____
Emergency Contact _____
Emergency Phone _____
Relationship to Student _____
Food allergies or restrictions (i.e, vegetarian, sensitivities, or diabetic) _____
Medical Conditions/Allergies _____

List people and relationship that are allowed to pick up the child from camp if transportation is not used by student



GEAR UP PROMISE NEIGHBORHOOD

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GEAR UP Summer Forensics Science Camp.

June 23-27, 2014

9:00-2:30 a.m.

HCTC Technical Campus-Devert Owens
Building



**GEAR UP Promise
Neighborhood**
In conjunction with *Texas Instruments* presents a
**FREE Summer Forensics
Science Camp for 8th and
9th Grade Students from
Knott and Leslie Counties.**
Enroll now
Space is limited to 30

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CSI-Hazard

Science plays an important part of catching criminals

GEAR UP Promise Neighborhood in conjunction with Texas Instruments, Knott County School District, Leslie County School District, Berea College Partners for Education , and the Challenger Learning Center of Kentucky have combined their talents to provide a unique opportunity using technology and hands on learning to learn about Forensic Science.

Students will meet the following objectives for learning (and fun).

1. Students will analyze data to determine what type of evidence is found at crime scenes
2. Utilize math and science to solve real world problems ,
3. Learn how math and science can help in other careers.
4. Understand and demonstrate to the principles of velocity, density, speed, distance, wavelength and light to solve crimes.

Students will:

- Have access to free transportation from Knott County Central or Leslie County High School
- Have free lunch and snack each day
- A cumulative activity field trip to learn more about forensic science programs on June 27, 2014
- Have access to technology from Texas Instruments



Case File Scenarios

Hit and Run- Students will learn about displacement, acceleration, and velocity to determine patterns of measurement

Life in the Fast Lane: Students will look at friction and use it to determine the speed of a vehicle from the distance of its skid.

Flipping Coins: Students will explore to concept of density and use it to distinguish between pennies minted in different years.

The Ink is Still Wet: -Students will use colorimetry to identify inks as unique mixtures of pigments

Drug Test:-Students will attempt to identify an unknown drug as they explore the differences between chemical and physical properties. No actual drugs will be used for this activity

No Dumping:-Students will investigate the importance of soils and other trace evidence in connecting victims, crime scenes, and suspects.

A killer cup of coffee:-Students will use colorimetry to calculate the concentration of an unknown solution by measuring how it absorbs a specific wavelength of light



Case File Scenarios Continued

Dropped at the Scene:-Students will investigate blood splatter analysis. No actual blood will be used in this scenario

Ashes to Ashes: Students will learn that evaporation rate is a characteristic property of a liquid. Based on this fact, they will identify the solution and the likely accelerant in a case of arson

Tracks of a Killer:-Students will analyze the relationship between shoe size, stride length, and height and then use that information to identify a killer.

Bouncing Back:-Students will be using the motion sensor as a sonar detector, through air to locate and identify a missing object in a box.

Name that Tune: Students will analyze sound waves to calculate the frequency or pitch of a musical note.

Hot Air, Cold Body: Students will use Newton's Law of Cooling to determine time of death at a crime scene. .