

“cutting edge science for the classroom”

Forensic Science Lab Activities

Turn Your Students Into Super Sleuths

Chemiluminescence in Blood Stain Detection

Crime scene investigators are called to the scene of a possible violent crime. They notice there is no visible blood. Someone takes out a spray bottle and begins to spray the area with a liquid. After the area is covered with spray, they turn out the lights. A strange, faint glow appears in certain areas of the scene. Learn how Luminol is used in scenes like this everyday. The special Luminol formulation does not require a separate hydrogen peroxide catalyst. Simply re-hydrate and use with the simulated blood hemoglobin to show your class. Includes an Instruction Manual with suggested activities. There is enough material for several demonstrations.



S96645

\$25.24

Forensic Chemistry of Blood Types



Blood typing is a method of classifying blood based on the presence or absence of specific proteins, called antigens, on the surface of red blood cells. Blood type, an inherited characteristic, is valuable to know in that it affects medical procedures, such as surgery and transfusions, paternity testing, as well as serving as evidence in criminal investigations. Determining blood type can help provide supporting evidence or eliminate a possible suspect's involvement in a crime. This activity includes a Teachers Manual and Student Guide and Analysis copymasters. There is enough material for 15 groups.

S96644

\$43.25

Blood Spatter Lab Activity



It is the job of crime scene investigators to analyze a crime scene and examine/gather various types of evidence that may be used to piece together a possible series of events. An investigator experienced in the analysis of blood spatter can use physical observation as well as mathematical measurement in order to help support or refute possible witness accounts of the crime or, when no witnesses are available, provide insight into events that may or may not have occurred at the crime scene. In this activity students will work through a series of five stations and examine various aspects of blood spatter analysis including the effect of falling height on blood, the appearance of blood that impacts a surface at varying angles, some common blood spatter patterns that may be present at a crime scene, the effect of impact velocity on blood spatter, and the manner in which various surface type/texture may affect the appearance of blood evidence. Kit contains enough materials for fifteen groups. Teacher's Manual and Student Study Guide copymasters are included.

S12833

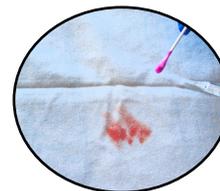
\$125.00

Presumptive Blood Test

Students will perform the test used in real investigations for the presence of blood using phenolphthalein. Though the test will not distinguish between animals and human blood, it is a confirmatory test used to indicate if further serology tests are needed. The kit includes instructions, blood standard and reagents to complete 30 tests.

S96638

\$20.55



Fisher Science Education

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4500 Turnberry Drive

Hanover Park, IL 60133

Email: info@fisheredu.com

Toll Free: 1-800-955-1177

Toll Free Fax: 1-800-955-0740

www.fisheredu.com

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Hair Analysis

Discover how forensic scientists use hair to assist in solving crimes. You will discover the differences between human and animal hair as well as differences among different types of human hair. In the second part of the activity, you will try to determine the origin of a hair sample from a crime scene in relation to hair samples from four known suspects. This activity includes a Teachers Manual and Student Guide and Analysis copymasters. There is enough material for 15 groups.



S96643

\$56.50

Dusting for Fingerprints

Learn to identify and classify different types of fingerprints. Students will learn how to identify different types of fingerprints and distinguishing characteristics, as well as dusting for fingerprints, the oldest and most commonly used method of fingerprint detection. This activity includes a Teachers Manual and Student Guide and Analysis copymasters. There is enough material for 15 groups.

S96648

\$69.75



Forensic Chemistry: Unknown Substances



Often times, when collecting evidence at a crime scene, investigators may recover substances they are unable to identify in the field. Along with evidence such as fingerprints, hair, fibers, etc., there may be traces of unknown chemicals or powders left behind by the perpetrator or perpetrators. Evidence of this nature is sent to the crime lab for identification. In this experiment, you will use your observation skills, senses, and chemical

tests on a series of known substances as well as two unknown substances. You will then attempt to identify the mystery substances based on your observations and recorded data. This activity includes a Teachers Manual and Student Guide and Analysis copymasters. There is enough material for 15 groups.

S96642

\$76.50

Forensic Chemistry: Chemical Detection of Fingerprints

Utilize alternative methods for detecting fingerprints. Examine some possible methods of gathering evidence when dusting for fingerprints is not effective. Learn to identify fingerprint types, a method of fuming for fingerprints, and a technique of chemically-developing fingerprints. The three activities include fingerprint analysis, ninhydrin development, and cyanoacrylate fuming. Kit contains enough material for 15 groups. Teacher's Manual and Student Study Guide copymasters are included.

S96357

\$36.00



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Forensic Chemistry: Document Analysis

The school library's computers have been stolen. Left behind was a ransom note demanding money. Help solve the crime using Thin-Layer Chromatography to separate the ink on the ransom note and ink found in markers tied to possible suspects. It may be possible to provide evidence as to whether or not the ransom note could have been written with a particular marker. Includes a Teachers Manual and Student Guide and Analysis copymasters. Material for 15 groups.

S96639

\$95.75



Gun Shot Residue Presumptive Test

In this two part test, students will determine whether a surface has been exposed to a discharged firearm. A rapid color change takes place to verify the presence of nitrates and lead. Each kit contains instructions and enough materials for 30 tests.

IS96637

\$34.50



Forensic Chemistry of Drug Detection

Everyone who ate the school cafeteria's chili became ill. Could someone have tainted the chili? You are a forensic toxicologist. It is you and your classmates' task to determine if any of the chili ingredients from the cafeteria could have been substituted with aspirin, which appears to have been stolen from the nurse's office. You will perform a series of chemical tests, including tests on control acetylsalicylic acid, the chemical name of aspirin, in the lab. This activity includes a Teachers Manual and Student Guide and Analysis copymasters. There is enough material for 15 groups.



S96646

\$38.50



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Crime Scene Investigation Lab

Use your forensic techniques to solve the crime of the missing frogs from the biology classroom. Four possible suspects have been identified by the authorities. Use fingerprints, hair examination, and chemical analysis of ink by Thin-Layer Chromatography to help determine the most likely culprit.

This activity includes a Teachers Manual and Student Guide and Analysis copymasters. There is enough material for 6 groups.



Physical Properties of Glass

Often times, during a criminal investigation, police and crime scene investigators must use all available tools and pieces of evidence to work backwards and create the most likely scenario as to what might have occurred. Different types of



evidence provide different pieces to the puzzle. Learn about the different chemical and physical characteristics and properties of glass. Find how forensic scientists use these differences to help

provide evidence to solve crimes. This activity includes a Teachers Manual and Student Guide and Analysis copy-masters. There is enough material for 15 groups.

S96641

\$109.00

S96647

\$143.69

Master Set of 12 Forensic Kits S05884

This kit pack includes the necessary materials to introduce students to the forensic fields of hair analysis, fingerprint analysis, soil and mineral analysis, drug and poison analysis and document analysis. Each kit contains enough material for 30 students when working in groups of 2 to 3. Teacher 's Guide and Student Study Guide copymasters included.

S05884 Kit Includes:

- 1 Forensic Chemistry of Hair Analysis Kit
- 1 Forensic Chemistry: Chemical Detection of Fingerprints Kit
- 1 Forensics of Soil and Mineral Analysis Kit
- 1 Forensic Drug and Poison Analysis Lab Activity Kit
- 1 Document Analysis: Comprehensive Lab Activities Kit

\$695.00



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