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Inquiry Investigation Kits
Crime Scene Tape Roll
Bright yellow Crime Scene Tape for use in forensics crime scene lessons. Length: 30M.
Code: 60-5164 £13.00

C.S.I. Forensics Poster 965 x 685mm
This colourful Crime Scene Investigation laminated poster contains 12 pictures and one large illustration on this popular and interesting science. The subjects of the pictures include:
The forensic C.S.I. investigation kit; Keeping the crime scene uncontaminated; Photographing a murder scene; Arson evidence; Methods of investigation; 7 things to remember while doing a crime scene investigation and many more!
Code: 271-005 £26.00

Crime Scene Investigations
A fascinating exploration of the science of criminal investigations. Examine the physical evidence of a crime scene and gather evidence. Perform various tests to analyse the evidence gathered. Identify the crime's victim through dental records and fingerprints. Perform tests to determine the cause of death. Analyse evidence to determine a suspect. Contains materials for up to 40 students.
Code: 14-20-3863 - Lab Investigation £99.00

Forensic Science: Dealing with Evidence
Explore the rapid advances in one of today's fastest growing and most alluring branches of science: forensics. Students will be introduced to the fundamentals of all the major aspects of forensic science, including fingerprinting, DNA analysis, ballistics, materials analysis, toxicology and serology. Current techniques are presented via an engaging, on-screen format which is accompanied by complementary activities and relevant links.
Code: 16-13-1651 - Individual Study CD £99.00
Detective’s Casebook

Develop problem-solving skills while solving a mystery!

Students become junior detectives, honing their crime-solving skills by investigating the mysteries surrounding a fictitious crime scenario. To solve the mystery, they’ll perform hands-on toxicology testing, chromatography, fingerprinting, document analysis, and simulated blood typing. They’ll also learn how each of these processes can be used to support their final conclusion as to whether a crime was committed and, of course, ‘whodunit’! Contains materials for up to 40 students.

Code: 13-20-2163 - Lab Investigation £99.00

Forensic Chemistry of Whodunit

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

This activity includes a Teacher’s Manual, Student Guide and Analysis copy-masters. There is enough material for 6 groups.

Materials included in the kit:
- 1 bottle Fingerprinting Powder
- 6 Fingerprinting Brushes
- 6 Acetate Sheets
- 1 Ink Pad
- 6 Hand Magnifiers
- 6 pairs Forceps
- 4 different brands Felt Tip Markers
- 1 bottle Chromatography Solvent
- 6 Mica cell Chromatography Sheets
- 1 pack Capillary Tubes
- 6 Self-sealing Evidence Envelopes
- 3 Box Microscope Slides
- 3 Box Coverslips

Materials needed but not supplied:
- Chromatography Chambers
- Test Tubes
- Aluminium Foil
- Adhesive Tape
- Illuminated Microscope

Code: IS9011 - Class Kit £125.00

Forensic Chemistry of Unknown Substances

Often, 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, fibres, 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 Teacher’s Manual and Student Guide and Analysis copy-masters. There is enough material for 15 groups.

Kit includes:
- Baking Powder
- Baking Soda
- Corn Starch
- Talcum Powder
- Salt
- Gelatine (porcine and bovine origin)
- Mystery Substance #1
- Mystery Substance #2
- Biuret Reagent
- Dilute Lugol’s Iodine
- Acetic Acid
- 30 Reaction Plates

Code: 360-011 - Class Kit £105.00
Forensic Chemistry of Drug Detection

Everyone who ate the school cafeteria’s chilli became ill. Could someone have tainted it? You are a forensic toxicologist. It is your task to determine if any of the cafeteria ingredients 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 aspirin in the lab. This activity includes a Teacher’s manual, Student’s guide and Analysis copy-masters. There is enough material for 15 groups.

Materials included in the kit:
- 1 bottle Control Acetylsalicylic Acid
- 3 bottles chilli
- 1 bottle Ferric Nitrate 0.1M Solution
- 1 bottle Lugol’s iodine
- 15 Microreaction Plates

Code: IS9010 - Class Kit £50.00

Forensic Chemistry of Blood Types

Blood typing is a method of classifying blood based on the presence or absence of specific proteins, called erythrocytes, 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 or 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 Teacher’s Manual and Student Guide and Analysis copy-masters. There is enough material for 15 groups. Note: This activity uses Innovating Science Simulated Blood and is safe for classroom use.

Kit Includes:
- Blood Typing Trays
- 4 Simulated Blood Samples: Victim, Suspect #1, Suspect #2, Crime Scene
- 1 set ABO/Rh Blood Typing Antiserum
- 1 Pack Mixing Sticks

Code: IS9008 - Class Kit £59.00

Forensic Chemistry - Hair Analysis

Discover how forensic scientists use hair in solving crimes. Uncover the differences between animal hair and the various types of human hair. Determine the origin of a hair sample from a crime scene in relation to hair samples from four known suspects. This activity includes a Teacher’s Manual, Student Guide and Analysis copy-masters. There is enough material for 15 groups.

Materials included in the kit:
- 1 box Microscope Slides
- 1 box Coverslips
- 15 pairs Forceps
- Deer, Cat and 4 Human Hair Samples

Code: 271-003 £82.00
Fingerprinting: A Forensic Puzzle

Apply the scientific method using actual crime-solving techniques. Using fingerprints lifted from a fictional crime scene, your students become forensic scientists and learn the proper techniques to make, observe, analyse and classify fingerprints according to the FBI's actual classification system. Includes everything needed to solve the mystery, including revolutionary 'Ink-less' fingerprint cards which can easily - and cleanly! - create fingerprints for analysis without the use of inks. Contains materials for up to 40 students.

Your students will:
- Understand what makes a fingerprint
- Take a 'direct' fingerprint
- Identify and classify fingerprint types using patterns of ridges on skin
- Lift and identify latent fingerprints.

Code: 13-20-1263 - Lab Investigation £107.00

Additional cards for Fingerprinting Forensic Puzzle (code: 13-20-1263).

Code: 14-99-0005 - Pack of 20 £44.00

Fingerprint Identification Poster

548 x 870mm

A detailed overview of the standard patterns of fingerprints as well as how ridgeline details are used to determine an identical match. Informative text describes the science of fingerprinting as well as how fingerprints are made, lifted and matched. 548 x 870mm

Code: 14-35-1101 £29.00

Forensic Chemistry: Dusting for Fingerprints

To identify different types of fingerprints and distinguishing characteristics, as well as dusting for fingerprints, the most commonly used method of fingerprint detection. Includes a Teacher's Manual, Student Guide and Analysis copy-masters. There is enough material for 15 groups.

Materials included in the kit:
- 1 bag Fingerprinting Powder
- 15 Fingerprinting Brushes
- 15 Hand Magnifiers
- 1 Ink Pad
- 1 pack A4 acetate sheet

Code: 271-001 - Class Kit £95.00
Forensic Chemistry: Chemical Detection of Fingerprints

Utilise 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. This activity includes a Teachers Manual and Student Guide and Analysis copy-masters. There is enough material for 15 groups.

Kit includes:
- 1 tube Super Bonding Glue
- 1 bottle Ninhydrin powder
- 4 bottles 95% ethanol
- 15 Fuming Trays
- 15 sheets Black Plastic

Code: 271-006 £50.00

Gunshot Residue: Presumptive Test Kit

This is a two-part test to determine whether a surface has been exposed to a discharged firearm. A rapid colour change takes place to verify the presence of nitrates and lead. Each kit contains instructions and enough materials for 30 tests.

Materials included in the kit:
- 1 Diphenylamine Sulfuric Acid Solution, 5 ml
- 1 Sodium Rhodizonate, 0.025g
- 1 Lead Nitrate, 5 ml
- 1 Aqueous Solution, 0.05M
- 20 Alcohol Swabs

Code: 271-004 £40.00

Forensic Anthropology Kit

Your students will work as forensic anthropologists within a lab to help solve a ‘cold’ case! They will explore the exciting world of anthropology. They will perform hands-on analysis of a bone recovered from the crime scene to determine the age, gender, and race of the victim. Further toxicology, microscopy, and soil analysis will lead to the elimination of suspects and the elimination of the victim. Contains materials for up to 40 students.

Code: 16-20-4553 £131.00

* Lab Investigation
About Neo/BLOOD® Simulated Blood Typing Lab Investigations.
Conduct realistic blood typing activities without exposure to the hazards of real blood! Neo/BLOOD® looks and behaves like real blood, provides quick, easy and completely safe results and realistically simulates agglutination. Contains simulated, microscopic blood cells which can be viewed and counted under a microscope or used with a haemacytometer.

The Mystery of the Bloody Stain using Neo/BLOOD®
A multitude of comprehensive forensic investigations! Learn how blood stains can be used to solve crimes. Your students will become forensic scientists as they try to solve a murder using a ‘bloody stain’ left at the scene of the crime using simulated Neo/BLOOD®. First, they’ll identify whether or not the stain is actual blood by searching for simulated blood cells under the microscope. Then they’ll solve the crime by performing ABO and Rh typing of the stain as well as of samples from the victim and several suspects. The match will help them ‘nab’ the perpetrator! As a result, the students will learn about blood groups, blood typing and how blood stains can be used in solving crimes. Contains materials for up to 40 students.

Code: 13-20-2143 - Lab Investigation £64.00
Code: 13-20-2145 - Refill £44.00

Chemiluminescence in Blood
Crime scene investigators examine the scene of a possible violent crime for evidence, such as fingerprints, hair, fibres, etc. After collecting the evidence, they notice there is no visible blood. Someone sprays the area with a liquid then turns 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 haemoglobin to show your class. This activity includes an Instruction Manual with suggested activities. There is enough material for several demonstrations.

Materials included in the kit:
2 bottles Luminol Powder, 1 bottle Simulated Blood Haemoglobin.

Code: IS9009 - Demonstration Kit £37.00
Blood Test Kit

Test for the presence of blood on materials using phenolphthalein. The test will not distinguish between animal and human blood. Further serology tests are needed. Includes instructions, blood standard and reagents to complete 30 tests.

Materials included in this kit:
- 2 x 25 ml Phenolphthalein, 2% Solution
- 2 x 25 ml Ethyl Alcohol UN1170
- 1 x 50 ml Hydrogen Peroxide, 3% Solution
- 5 Blood Standard Strips
- 50 Cotton Swabs

Code: IS9002  £29.00

Forensic Chemistry of Chromatography

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. This activity includes a Teacher’s Manual and Student Guide and Analysis copy-masters. There is enough material for 15 groups.

Materials included in the kit:
- 3 different brands Felt Tip Markers
- Chromatography Solvent
- 15 Silica Gel Chromatography Sheets
- Capillary Tubes

Materials needed but not supplied:
- 15 Chromatography Chambers (500 ml beakers)
- 15 Test Tubes
- Aluminium Foil

Code: IS9003 - Class Kit  £130.00

Physical Properties of Glass

Often, 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 scenarios 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.

Kit includes:
- 1 bottle Borosilicate Glass Beads
- 1 bottle Flint Glass Beads
- 1 bottle Soda-lime Glass Beads
- 1 set Refractive Index Solutions
- 15 Magnifiers

Note: Although not essential, a standard UV light source will enhance some of the activities included in this kit.

Code: IS9005 - Class Kit  £130.00
A DNA Murder Mystery

A fun way to learn about a topical, revolutionary technology. Teach your class about the latest innovations in DNA technology and their application to forensic science. Given the completely reusable kit, the class is challenged to solve a murder by simulating each step of the DNA fingerprinting protocol and matching the 'pop bead' DNA fingerprints of suspects versus samples collected at the scene of the crime. Your students will learn the basics of DNA fingerprinting and become familiar with DNA structure and extraction, gel electrophoresis and autoradiography. Contains materials for up to 40 students.

Your students will:

- Simulate the DNA fingerprinting procedure;
- Construct and interpret an autoradiogram;
- Compare and evaluate DNA fingerprint patterns;
- Compare the strengths/limitations of DNA profiling.

Code: 13-20-1023 - Lab Investigation £159.00

Forensic Science

A multitude of comprehensive forensic investigations! As the lead investigators, the class will be exposed to many aspects of a forensic laboratory. They will be called upon to solve a murder mystery using a combination of forensic science tools such as fibre and soil composition analysis, density analysis, insect identification and chemical analysis. Students will collect the evidence and analyse the results to solve a murder mystery. Contains materials for up to 40 students.

Code: 16-20-4563 - Lab Investigation £134.00
DNA Forensics

Explore the use of DNA technology in crime solving! Your students will become forensic scientists as they apply the latest innovations in DNA technology to a scenario-based DNA murder mystery. They’ll compare the electrophoretic results of DNA samples from a ‘crime scene’ with those from various suspects. Using a simplified DNA fingerprinting procedure, they’ll then solve the crime based upon the fragment patterns revealed on the gel. In the process they’ll learn the basic concepts of DNA fingerprinting as well as insight into why this revolutionary process is so accurate. They’ll also get a ‘hands-on’ education on DNA structure and extraction, gel electrophoresis and autoradiography. This activity brings the ‘real-world’ applications of biotechnology to life and will simulate discussion on the ethical considerations associated with the use of cutting-edge technology. Contains materials for up to 40 students.

Code: 13-20-3383 - Lab Investigation £124.00

DNA Fingerprinting Simulation

A hands-on, inquiry-based simulation of DNA typing! Study the process of DNA fingerprinting, simulating every step without the need for either equipment or even prior knowledge! Using pop beads and other reusable manipulatives, your students will assemble DNA strands and use them in various inquiry-based scenarios to learn about DNA fingerprinting and its application to forensics. They’ll also discover how this technique can be used in disease identification and in determining familial relationships. In the process, the class will gain a clear understanding of not only DNA fingerprinting but also basic DNA structure and related genetic concepts. Contains materials for up to 40 students.

Your students will:
- Simulate the DNA fingerprinting procedure;
- Compare and evaluate DNA fingerprint patterns;
- Study the applications of the DNA fingerprinting process;
- Gain an understanding of DNA structure and related genetic concepts.

Code: 16-20-3873 - Lab Investigation £166.00

Poppit Beads

Poppit beads are a useful laboratory modelling unit. They can represent disaccharide and polysaccharide molecules in demonstrating carbohydrate metabolism and can also be used to represent genetic code as well as whole chromosomes, or as amino acids, dipeptides, monosaccharide, polypeptides and proteins in protein metabolism.

Code: EDU1250 - Greens, bag of 200 £10.00
Code: EDU1251 - Red, bag of 200 £10.00
Code: EDU1252 - Yellow, bag of 200 £10.00