


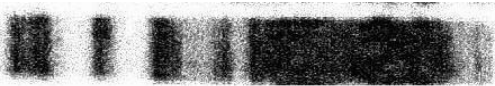
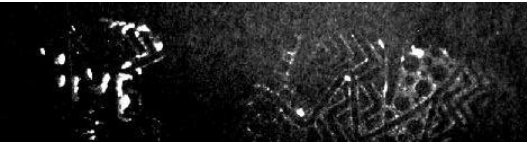




Crime Busters Clinic

Dr. Smith returned from a trip to the office to find the room in shambles. Leaving the room while filling the vials for the Crime Buster team to practice with for only a couple of minutes, the door was not bothered to be locked. Dr. Smith heard a noise outside and rushed to the window in time to see someone pedaling off furiously. Unfortunately the person was trying to get away so fast that the bike wheel slipped off the pavement sending the bike and its rider flying. Police found a bike track, footprint, and blood & dirt on the sidewalk. In addition to the dumped Crime Buster materials, the police also found hair, fibers, plastic, & a liquid spilled on the ground and a note indicating the vandalism was in retaliation for Dr. Smith's investigative work on water quality at Lemon Lake. That narrowed the suspects since Dr. Smith had only two students whose parents worked at industries on Lemon Lake. You will need to identify the dumped Crime Buster materials, and determine from the evidence which of the suspects perpetrated the crime.

Vial	Name	Implicates																					
Metal																							
Liquid																							
Powder																							
Mixed Powder																							
Hair																							
Fiber																							
Plastic																							
Soil																							
Fingerprint type	 <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Container #</th> <th style="width: 55%;">Contents</th> <th style="width: 30%;">Density</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Corn Oil</td> <td>.917</td> </tr> <tr> <td>2</td> <td>46% Isopropyl Alcohol</td> <td>.950</td> </tr> <tr> <td>3</td> <td>Distilled Water</td> <td>1</td> </tr> <tr> <td>4</td> <td>10% NaCl</td> <td>1.07</td> </tr> <tr> <td>5</td> <td>25% NaCl</td> <td>1.19</td> </tr> <tr> <td>6</td> <td>Saturated NaCl</td> <td>1.25</td> </tr> </tbody> </table>	Container #	Contents	Density	1	Corn Oil	.917	2	46% Isopropyl Alcohol	.950	3	Distilled Water	1	4	10% NaCl	1.07	5	25% NaCl	1.19	6	Saturated NaCl	1.25	
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Juice Chromatogram																							
DNA																							
Foot Print																							
Tire Track																							
Juice Spatter-angle?																							
Height?																							

SUSPECT INTERVIEW SHEET

NAME Johnston, Jamie **PET** Golden Retriever **AGE & GRADE** 12, 7th **HAIR** Sandy Blond

FAVORITE DRINK Tropical Punch **HOBBIES** Working Out **PEN** Vis-A-Vis **Dirt** Clay

JOB Stock person a neighborhood store **Plastic** HDPE **HEIGHT & WEIGHT** 5'8"126# **EYES**

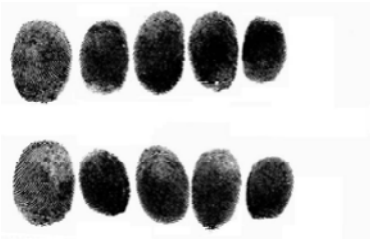
Hazel **CLOTHING** Cotton Uniform **Parent Works** Electricity Plant (pH problem)

Chemicals found on Zn, Sn, Al, H₂O, Lemon Juice, HC₂H₃O₂, Gypsum, CaCO₃, yeast, flour, NaC₂H₃O₂, Vitamin C, gelatin

INTERVIEW STATEMENT Hates school. Doesn't see any point to it.

FINGERPRINTS

SHOE BOTTOM



DNA



Tire



NAME Carlyle, Cary **PET** Persian Cat **AGE & GRADE** 13, 7th **HAIR** Gray

FAVORITE DRINK Grape Illusion **HOBBIES** Baking & Sewing **PEN** Papermate **Dirt** Sand

JOB Mows neighborhood lawns **Plastic** PVC **HEIGHT & WEIGHT** 5'6",132# **EYES** Gray

CLOTHING Nylon vest, wool shirt & Blue jeans **Parent Works** Steel Plant(metals)

Chemicals found on Mg, Cu, Fe, H₂O₂, rubbing alcohol, NH₄OH, NaCl, Sand, NaHCO₃, cornstarch, sugar, Alka-Seltzer

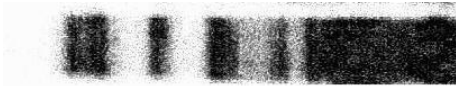
INTERVIEW STATEMENT Just doesn't have enough time to study. Parents applying pressure.

FINGERPRINTS

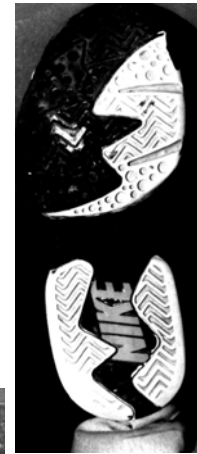
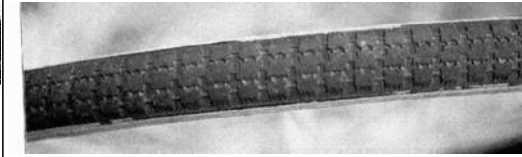
SHOE BOTTOM






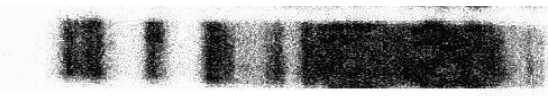
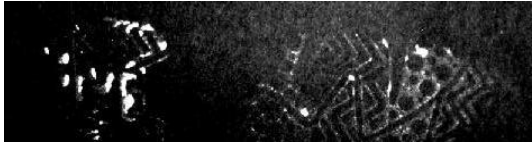


DNA



Tire



Answer Sheet

Vial	Name	Implicates
Metal	Iron	Cary Carlyle
Liquid	Isopropyl Alcohol	Cary Carlyle
Powder	Sodium Chloride	Cary Carlyle
Mixed Powder	Sodium hydrogen carbonate and cornstarch	Cary Carlyle
Hair	Cat	Cary Carlyle
Fiber	Wool	Cary Carlyle
Plastic	PVC	Cary Carlyle
Soil	Sand	Cary Carlyle
Fingerprint	 <p>Fingerprint type Whorl</p>	Cary Carlyle
Ink Chromatogram		No one
Juice Chromatogram		No one
DNA		Cary Carlyle
Foot Print		Cary Carlyle
Tire Track		No One
Juice Spatter-angle?		90 Drop
Height? Low		