CRIME BUSTERS
TROY INVITATIONALS
2/3/2012

		Total Number Wrong	Total Possible Answers	%	
Part a	Qualitative Analysis	_____	14	50	_____
Part b	Hairs, Fibers, or Plastics	_____	7	10	_____
Part c	Chromatography	_____	1	5	_____
Part d	Crime Scene Evidence	_____	1	10	_____
Part e	Analysis	_____	44	25	_____

Sub Points Value _____

Must leave the work area clean, dispose properly, and do not use containers as the spot plates.

(Up to 10%) Deduction _____

Total Points Value _____

Rank _____

Team Name _____

Team Number _____

CRIME SCENE INFORMATION

On Saturday, February 4, 2012, the police were called to the local bingo hall.
This note was left in the locker of the bingo caller.

THANKS FOR noT CALLiNG

MY NuMBERS TONigHT.

To SHoW YoU HOW hAPPY

I aM, I SLaShEd yoUr TIRES.

HavE a Good NighT!

The note was signed using an ink blotter. Paper Chromatography - Question No. 22

There was a fingerprint found on the note.
It was determined that the fingerprint was from the right hand
index finger. - Question No. 23

Found at Crime Scene

Liquid - Evidence No. 9
Powder - Evidence No. 10 (mixture of two powders)
Powder - Evidence No. 11 (mixture of two powders)
Powder - Evidence No. 12
Metal - Evidence No. 13
Metal - Evidence No. 14
Fiber - Evidence No. 15
Fiber - Evidence No. 16
Plastic - Evidence No. 21

SUSPECTS INFORMATION

All of the women sit together at the front table near the southwest exit door.
All of the women were extremely upset because they didn't like staying after
the game because they wanted to get home and watch the Mentalist on CBS.

Suspect No. 1

    Evidence Nos. 1 and 2 (powders)
    Evidence No. 17 (from the drink cup filled with Coke)
    She was wearing a brown cotton (vegetable) sweat suit.
    Right-hand index finger: loop
    Left-hand index finger: loop
Hobby: Creates jewelry using copper
While tearing up her bingo papers, she got a paper cut.
She went into the locker room to retrieve the first aid kit.

Suspect No. 2

    Evidence Nos. 3 and 4
    Evidence No. 18 (from the ketchup bottle used for her hot dog)
    She was wearing a brown polyester (synthetic) shirt and blue jeans
    Right-hand index finger: whorl
    Left-hand index finger: whorl
Hobby: Creates earrings from recycled aluminum
She is an environmentalist with a sunny disposition.

Suspect No. 3 (sister of Suspect No. 4)

    Evidence No. 5
    Evidence No. 19 (from the water bottle)
    She was wearing a brown cotton (vegetable) & brown polyester (synthetic) pants.
    Right-hand index finger: arch
    Left-hand index finger: whorl
Hobby: Creates iron energy wristbands
Her first night back to playing bingo since she recovered from a stroke.

Suspect No. 4 (sister of Suspect No. 3)

    Evidence Nos. 6, 7, and 8
    Evidence No. 20 (from the drink cup filled with Red Pop)
    She was wearing a brown leather (animal) lined with nylon (synthetic) dress
    Right-hand index finger: loop
    Left-hand index finger: arch
Self-employed at a hardware store

Name _____ School _____

Team No. _____

1 _____ Name the Powder   (Suspect No. 1)

2 _____ Name the Powder   (Suspect No. 1)

3 _____ Name the Powder   (Suspect No. 2)

4 _____ Name the Powder   (Suspect No. 2)

5 _____ Name the Powder   (Suspect No. 3)

6 _____ Name the Powder   (Suspect No. 4)

7 _____ Name the Powder   (Suspect No. 4)

8 _____ Name the Powder   (Suspect No. 4)

9 _____ Name the Liquid   (Crime Scene - on the floor by locker)

*10 _____ Name the **two** Powders (Crime Scene - on the floor in front of locker)

*11 _____ Name the **two** Powders (Crime Scene - inside of the locker)

12 _____ Name the Powder (Crime Scene - by the room's exit door)

13 _____ Name the Medal (Crime Scene - on the floor)

14 _____ Name the Medal (Crime Scene - on the floor)

15 _____ Type of Fiber: Animal, Vegetable & Synthetic (Crime Scene) Found on the latch of the locker door

16 _____ Type of Fiber: Animal, Vegetable & Synthetic (Crime Scene)   Found on the latch of the locker door

17 _____ Type of Plastic: PETE, HDPE, PS, LDPE, PP, and PVC   (Suspect No. 1)

18 _____ Type of Plastic: PETE, HDPE, PS, LDPE, PP, and PVC   (Suspect No. 2)

19 _____ Type of Plastic: PETE, HDPE, PS, LDPE, PP, and PVC   (Suspect No. 3)

20 _____ Type of Plastic: PETE, HDPE, PS, LDPE, PP, and PVC   (Suspect No. 4)
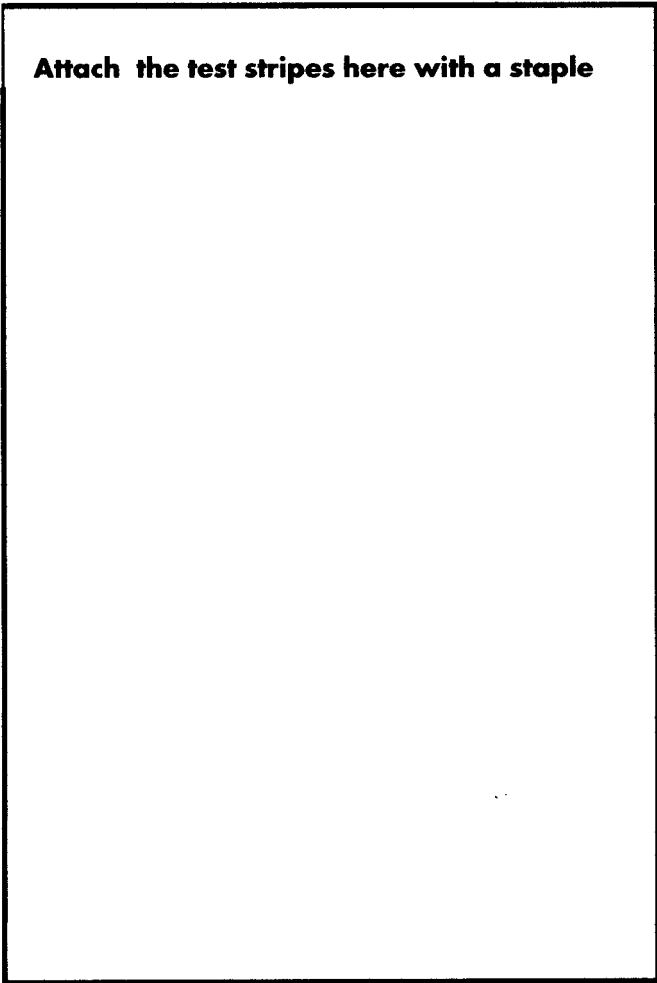
21 _____   Type of Plastic: PETE, HDPE, PS, LDPE, PP, and PVC (Crime Scene)

22 _____   Which suspect(s) could the blotter signature belong to?
_____   Results of the paper chromatography must be attached in the
_____   box below to receive credit for a correct answer(s).

+---------------------------------------+
| **Attach the test stripes here with a staple** |
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Name the suspect(s) who may match the fingerprint found at the
23 _____   crime scene.

_____

_____

FOR THE ANALYSIS, DETERMINE WHO THE MOST LIKELY SUSPECTS IS/ARE (PROVIDE EVIDENCE). THEN EXPLAIN
WHY YOU DID NOT SELECT THE OTHER SUSPECTS (PROVIDE EVIDENCE).

ANALYSIS