Name _____ School _____

Team No. _____

1	calcium sulfate or $2H_2O$ (gypsum)	Name the Powder (Suspect No. 1)
2	powdered gelatin	Name the Powder (Suspect No. 1)
3	sand	Name the Powder (Suspect No. 2)
4	calcium carbonate (powdered limestone)	Name the Powder (Suspect No. 2)
5	sodium acetate	Name the Powder (Suspect No. 3)
6	salt (NaCl)	Name the Powder (Suspect No. 4)
7	baking soda	Name the Powder (Suspect No. 4)
8	flour	Name the Powder (Suspect No. 4)
9	hydrogen peroxide	Name the Liquid (Crime Scene - on the floor by locker)
*10	baking soda & flour	Name the **two** Powders (Crime Scene - on the floor in front of locker)
*11	salt (NaCl) + cornstarch	Name the **two** Powders (Crime Scene - inside of the locker)
12	sodium acetate	Name the Powder (Crime Scene - by the room's exit door)
13	iron (Fe)	Name the Medal (Crime Scene)
14	zinc (Zn)	Name the Medal (Crime Scene)
15	animal	Type of Fiber: Animal, Vegetable & Synthetic (Crime Scene)
16	synthetic	Type of Fiber: Animal, Vegetable & Synthetic (Crime Scene)
17	TBD	Type of Plastic: PETE, HDPE, PS, LDPE, PP, and PVC (Suspect No. 1)
18	TBD	Type of Plastic: PETE, HDPE, PS, LDPE, PP, and PVC (Suspect No. 2)
19	TBD	Type of Plastic: PETE, HDPE, PS, LDPE, PP, and PVC (Suspect No. 3)
20	TBD	Type of Plastic: PETE, HDPE, PS, LDPE, PP, and PVC (Suspect No. 4)

Name School

Team No.

21 TBD — Type of Plastic: PETE, HDPE, PS, LDPE, PP, and PVC (Crime Scene)

22 TBD — 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).

(.20)

Attach the test stripes here with a staple

points

MUST STAPLE "4" (1) or .20

(2) or .4

completed stripes

- should be labeled w/ pencil (1) or .20

Analysis worth 44 points

4 suspects

X 11 pcs. of evidence

23 suspect 3 (1) — Name the suspect(s) who may match the fingerprint found at the 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).