

ANSWER KEY

I. UNKNOWN SUBSTANCE ANALYSIS: (20)

UNKNOWN 1: flour & sugar

UNKNOWN 2: baking soda

UNKNOWN 3: gelatin

UNKNOWN 4: yeast

UNKNOWN 5: hydrogen peroxide

UNKNOWN 6: iron

UNKNOWN 7: vitamin C

UNKNOWN 8: alka seltzer & calcium carbonate

UNKNOWN 9: cornstarch & salt

UNKNOWN 10: water

UNKNOWN 11: zinc

UNKNOWN 12: sand

UNKNOWN 13: sodium acetate

UNKNOWN 14: magnesium

UNKNOWN 15: plaster of Paris

UNKNOWN 16: baking soda & flour

II. HAIR ANALYSIS: (2)

Slide A: dog

Slide B: human

III. SHOE PRINT ANALYSIS: (2)

Whose shoes made the prints found at the crime scenes?

Both match Chancy Charming

IV. FINGERPRINT ANALYSIS: (2)

Whose prints were found?

Both match Chancy Charming

V. DNA FINGERPRINT: (2)

Whose DNA matches the blood samples?

Both match Chancy Charming

VI. CHROMATOGRAPHY: (6)

Whose pen was used to write the note?

Chancy Charming

VII: WRITTEN ANALYSIS: (10)

All evidence points to Chancy Charming and is consistent with his description in the story. Residues of flour, sugar and baking soda result from his bread baking and sand from walks along the beach. Vitamin C was also found, but it doesn't have a direct link to Chancy Charming.

For information on how to obtain a packet containing six previously administered Science Crime Busters exams similar in style to "The Case of the Missing Ballot Boxes," visit the following web site:

<http://www.otherworlds-edu.com>