

Super Sleuths Answer Key
NCSO Division A – Regional Event, 2021

Answer Key

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Part A – Crime Scene Chemical Evidence

Identify the Unknown Powders. Each is worth 8 points.

1. What is the identity of Powder X? **Powdered Milk**
2. What is the identity of Powder Y? **Vitamin C**
3. What is the identity of Powder A? **Sodium Acetate**
4. What is the identity of Powder B? **Citric Acid**
5. What is the identity of Powder C? **Flour**

Lab Procedure and Technique. Each is worth 2 points.

(Please see your test booklet for the questions!)

1. A B **C** D
2. A B C **D**
3. A B **C** D
4. A **B** C D
5. True **False**

Part B – Crime Scene Physical Evidence

Soil Analysis: Which type of Soil (A, B, or C) most closely matches the soil found in Granny's kitchen (Soil X)? (10 points)

Soil A Soil B Soil C

Which type of soil contains a large amount of clay? (5 points)

Soil A Soil B **Soil C**

Which type of soil contains a large amount of sand? (5 points)

Soil A **Soil B** Soil C

Shoeprint Analysis: Which type of shoe (A, B, or C) most likely made the shoe print found in Granny's kitchen? (10 points)

Shoe A Shoe B **Shoe C**

Part C – Analysis of Crime (Each is worth 5 points)

1. Evidence that indicates Lady Lollipop: Only the Soil A

2. Evidence that indicates Princess Pie: Only Shoe C

3. Evidence that indicates Captain Crumble: Solid Y, Solid C, Soil A, and Shoe C.

4. Which suspect is indicated by a majority of the evidence?

Captain Crumble.