

Crime Busters: The Stolen Mascot (Page 1)key

On the morning of March the 3rd, the principal of Sty High arrived at the school at 7:00 AM. He noticed the back parking lot door was pried open. He began to look around and when he came to the gymnasium he found the school mascot, Porky the pig, missing from his pen. He called the local police and began to search the building for the pig and for the janitor, Mr. Beef, who typically started work at 6:45AM. There was no sign of Porky or the janitor. He did however find Ms. Market the school nurse in one of the custodian closets washing some smudges off her white lab coat. When approached she became startled. The principal asked Ms. Market if she knew the whereabouts of Porky and/or Mr. Beef. She explained in a flustered voice that she did not know where they were and both her and the principal met and spoke to the police.

As soon as the police showed up at the scene they began to investigate. In Porky's pen a note was found on the floor covered by some hay. The note read, *"This little piggy cried wee wee wee all the way home!"* Also found at the crime scene:

- Fingerprints on the lock and around the cage
- Several white substances in and around the cage
- Drops of liquid around the cage
- A sample of the water was taken from Porky's water dish
- Some metal samples that were broken off of the cage

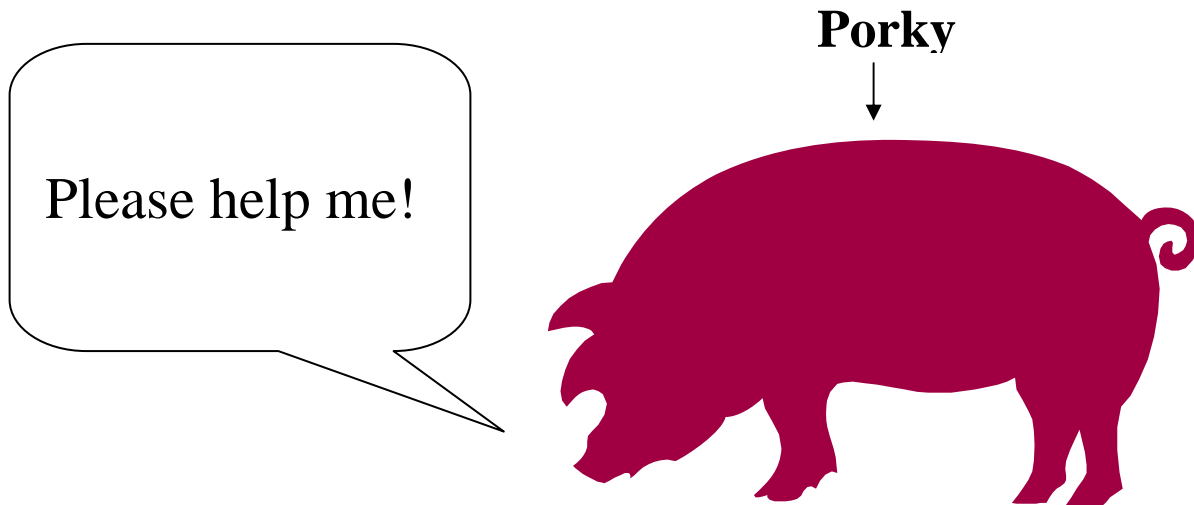
After questioning several witnesses the police narrowed their investigation to five key suspects.

1. **Stanley Butcher.** Is a basketball player on the Wolverines, a rival team of the Oink Oinks of Sty High. He swore to get even for the Oink Oink's stealing their team mascot last homecoming. He was seen by many students in the schools parking lot shouting that the "Oink Oink's will get theirs". Stanley works part time at a pizza joint. A pen with the pizza parlor's name on it was found in his possession. His fingerprints and water sample have been included.
2. **Ms. Market.** Works as the school nurse. She was found in the vicinity of the crime scene. She had been known to carry a bottle of hydrogen peroxide as an antiseptic. She went to the principal with her concerns about keeping a dirty animal in close contact with the students. She often disinfected the pen. After examining her lab coat, a pen with the Sty High logo was found in the pocket. Her fingerprints and water sample have been included.
3. **Al Roast.** Was recently kicked off the Sty High Basketball team for his unsportsmen like conduct. He was seen at Porky's pen the night before Porky was abducted. It was a known fact that he wanted to get revenge on the coach for throwing him off the team. Now his father makes him work after school cleaning up for his construction company. His fingerprints and water sample have been included.
4. **Mr. Beef.** Is an elderly gentleman who has worked as the custodian for the school for many years. He cleans many rooms including the Home EC room and the art studio where currently the students are creating plaster sculptures. He has been heard mumbling down the halls, "That dag-nabbit pig, this isn't a zoo and I'm not a zoo keeper". A pen with the Sty High logo was found in his shirt pocket. His fingerprints and water sample have been included.

Crime Busters: The Stolen Mascot (Page 2)

5. **Sandy None.** Sandy is a student at Sty High and a known animal activist who is always stressed out and complaining of stomach problems. Recently, she has solicited names on a petition demanding the release of Porky. A witness claims to have seen her fiddling with the lock on the pigs pen. Powders where found on her clothing and a pen was confiscated from her locker. Her fingerprints and water sample were taken and have been included.

- **NOTE:** *Substances #1 & #9 are mixtures.*
- *These substances were found at the scene of the crime: #1, #4, #6, & #11*



Crime Busters: The Stolen Mascot (Page 4)

II. CHROMOTAGRAPHY:

Perform a chromatography test on each of the pens found in the possession of the suspects. **On the line below** identify the suspect/s whose pen matches that of the one used to write the message found in Porky's cage:

_____ Mr. Beef & Ms. Market _____

III. WATER ANALYSIS: Identify the pH of the water found at the crime scene and on the suspects. Circle the suspect/s that match the crime scene.

SAMPLE	pH
Crime Scene	3-4
Stanley Butcher	1
Ms. Market	6-7
Al Roast	6-7
Mr. Beef	3-4
Sandey None	8-9

IV. FINGERPRINTS:

Which suspect's fingerprints match the fingerprints below? Write the name of the suspect in the box above each fingerprint.

suspect	suspect	suspect	
Mr. Beef	Mr. Beef	Sandy None	

Prints found on the lock to Porky's cage.

suspect	
Al Roast	

Print found around Porky's cage

Crime Busters: The Stolen Mascot (Page 5)

SUSPECT FINGERPRINT FILE:

1. Stanley Butcher:

2. Ms. Market:

3. Al Roast:

4. Mr. Beef:

5. Sandy None:

Crime Busters: The Stolen Mascot (Page 6)

II. WRITTEN ANALYSIS:

Based on the evidence you collected, explain who committed the crime and why.

Mr. Beef:

1. Gypsum & sand = From cleaning projects in art room
2. Ammonia = From cleaning school
3. Fingerprints = Found on lock
4. Chromatography = From the note
5. Water sample = Matched water from bowl
6. Motive

Ms. Market:

1. Chromatography = Pen matched
2. Hydrogen peroxide
3. Motive

Stanley Butcher:

1. Motive

Al Roast:

1. Motive
2. gypsum & sand = works construction
3. Fingerprint

Sandy None:

1. Print = found on lock
2. Alka Seltzer = from stomach pains

Science Crime Busters

The Stolen Mascot!!!

School Name: _____

Team #: _____

Individual Names: _____

Circle one: **Varsity** **JV**

Total Score: _____