

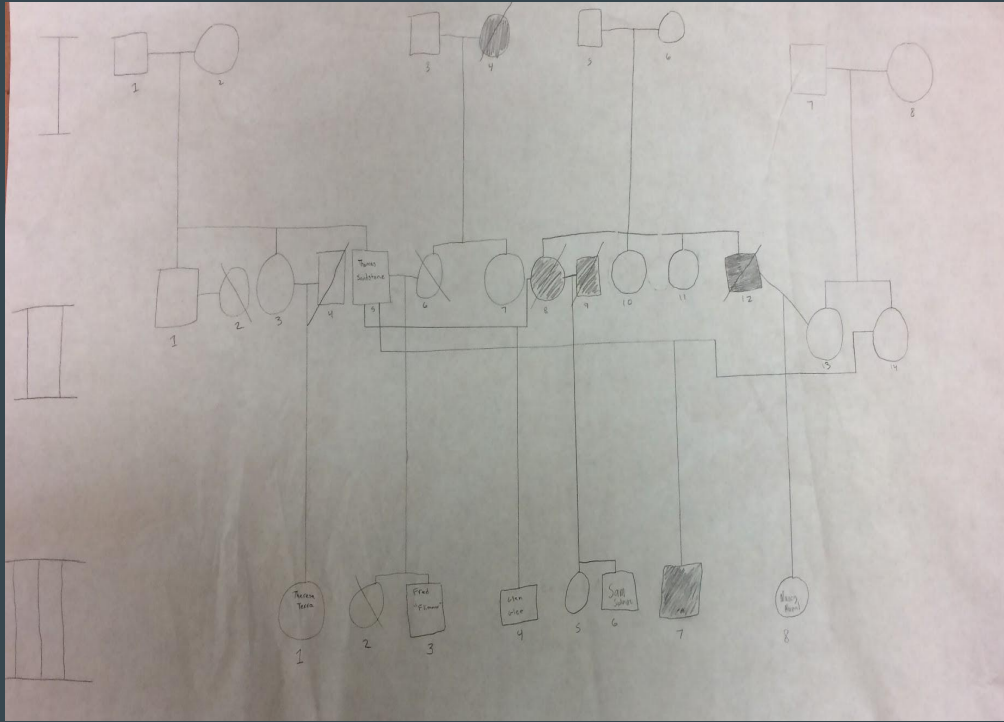
# Murder Mystery

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# Who killed Carleton Comet?

The Murder of Carleton Comet was surrounded by many pieces of evidence. All of this evidence including genetic tests, fingerprinting, pedigrees, karyotyping, and ink samples found at the scene. Every single thing found pointed towards one suspect, and that suspect is Nancy Normal.

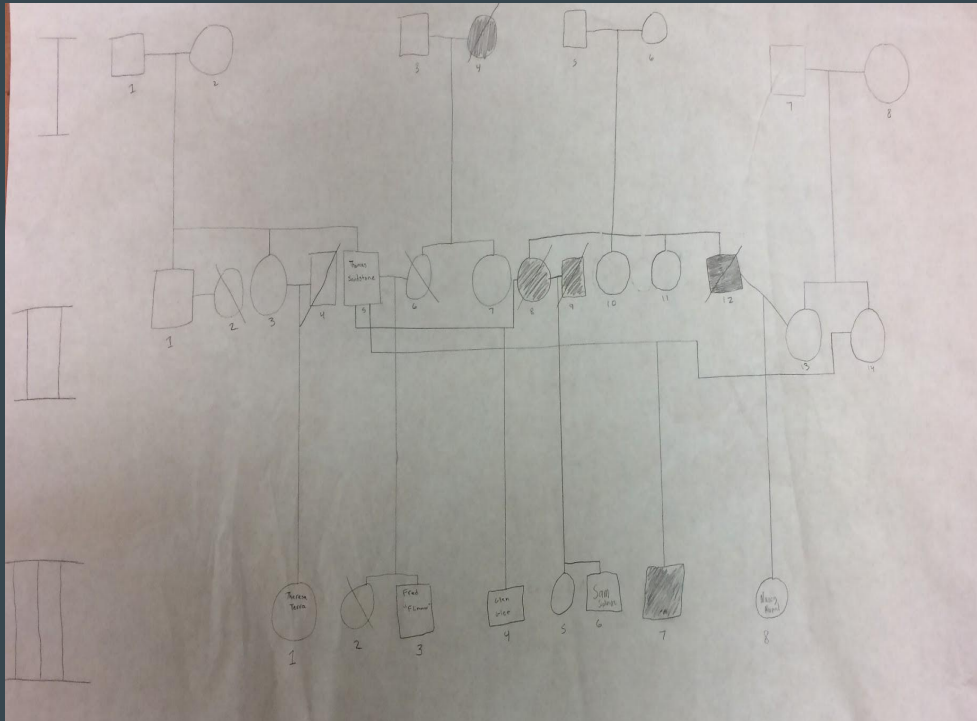
# Who Carleton Comet Really is



## Pedigree Chart:

- We can use this to track genetic diseases
- We can use this to track connections among suspects
- We can use this to find motives for the murder

# Who Carleton Comet Really is Pt. 2



- Carleton Comet is described as a person with many affairs and children, similarly to Thomas Sandstone, who also just came out of jail.
- Comet is Thomas Sandstone negatively linking himself to the suspects

# Possible Motives #1

Revenge:

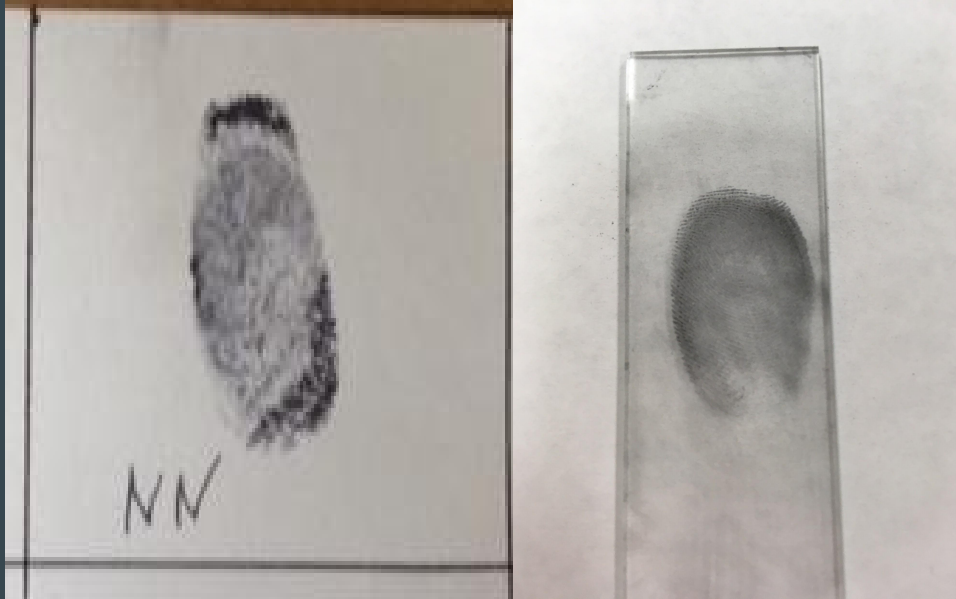
- Nancy Normal wanted to kill Carleton Comet to get revenge on cheating on his Aunt
- She saw his actions and felt like she needed to stop him for the future

## Possible Motives #2

Love:

- Nancy loves Fred Flimmer and Carleton Comet killed his mother (Joan) and his sister (Peebles). (As seen in Peddigree)
- She wanted to get back at Carleton Comet and win Fred over

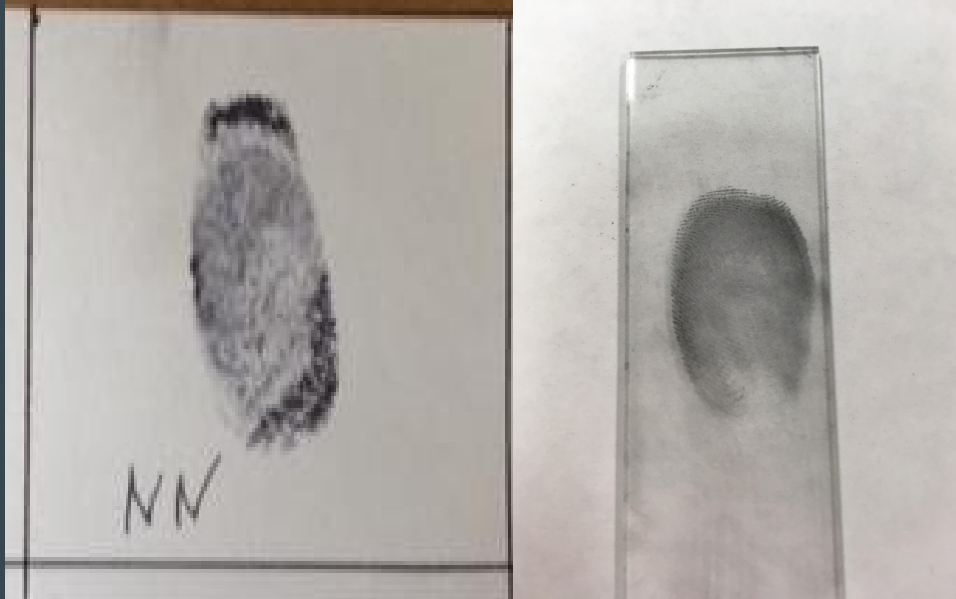
# Fingerprint Investigation



## What we Studied:

- We looked for fingerprint patterns such as loop, whorl, and arch
- We looked for ridge alignment from both of the fingerprints
- We looked for size and structure of the fingerprint as well

# Fingerprint Further Analysis

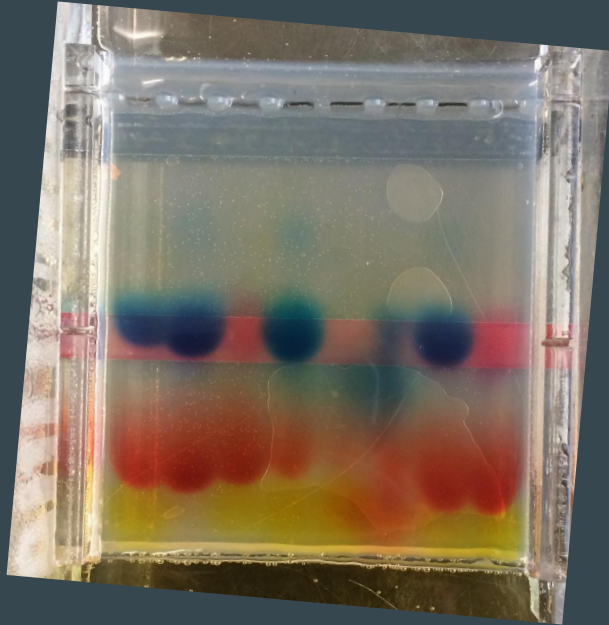


What we gathered:

- From this we can gather that Nancy Normal had her hand on the knife at the crime scene
- The fingerprints matched no other suspect or the victim remotely



# DNA Fingerprinting



- Sam Sophomore and Carleton Comet both match CS1
- Nancy Normal matches CS2

(To get this we made an agarose gel, extracted DNA for each suspect and the crime scenes, then ran it through electrophoresis after putting the DNA in the agarose gel. After this we saw our results.)

Left to right:  
SS, TT, NN, FF, GG, CC, CS1, CS2

# Blood Typing

- Done by combining antigens with blood samples
  - anti-A and anti-B
- Depending on reaction we can find the blood type
  - Eg: if the sample clumps with anti-A solution, the blood type is A

Name:	Blood Type:
Nancy Normal	A
Theresa Terra	A
Carleton Comet	O
Glen Glee	A
Fred Flimmer	O
Sam Sophomore	O
Crime Scene 1	O
Crime Scene 2	A

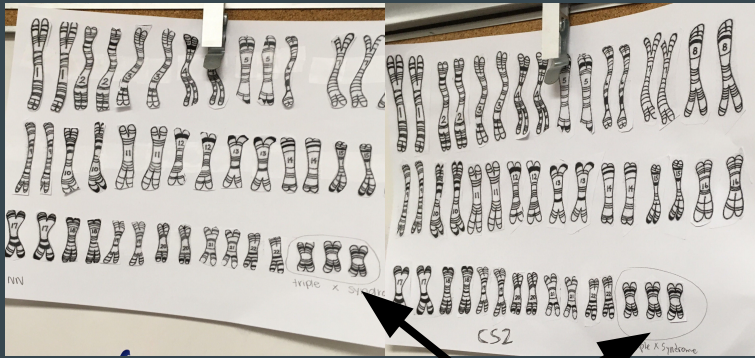
# Blood Typing

- Nancy Normal, Theresa Terry, and Glen Glee have an A blood type
- Carleton Comet, Fred Flimmer, and Sam Sophomore have an O blood type
- CS1- O
- CS2- A

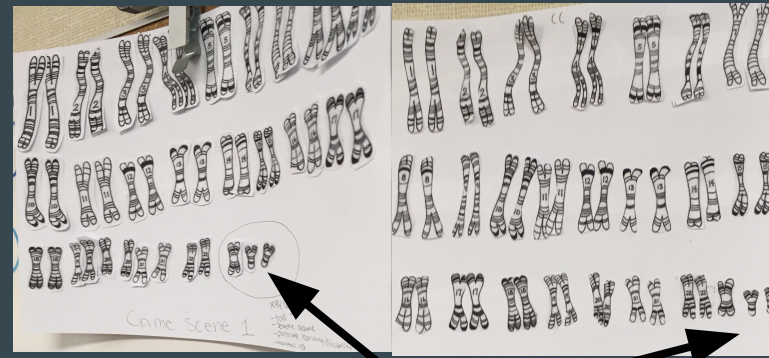
Rules out Fred Flimmer and Sam Sophomore as suspects b/c O matches the victim's blood type.

# Karyotypes

Karyotyping is a process in which chromosomes are digitally cut out to form a complete set which can be compared with others.



This shows triple X disease which is found only in Nancy Normal and Crime Scene 2

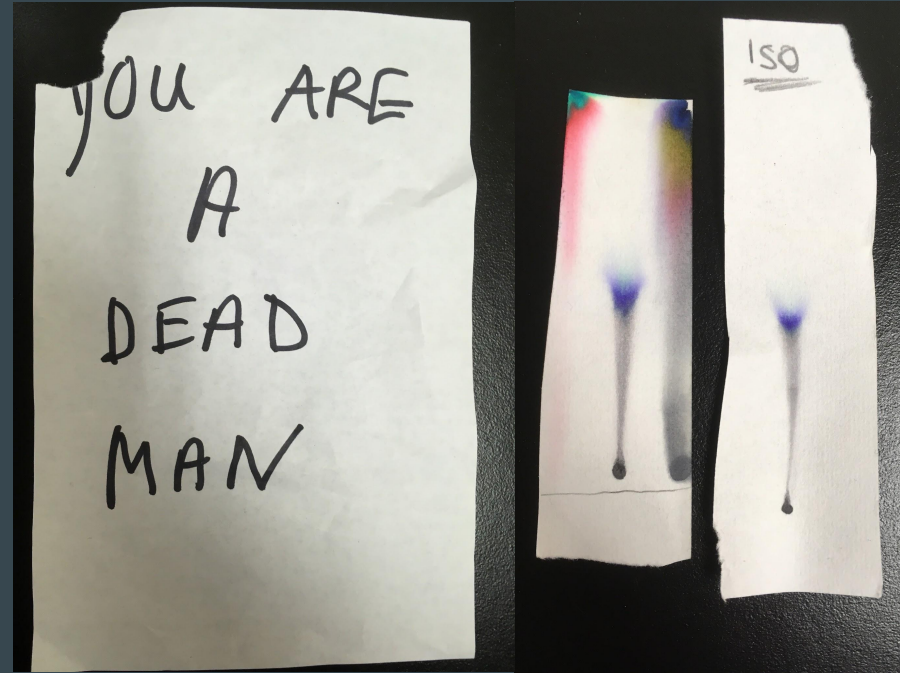


Shows XYY disease which is found in only Carleton Comet and Crime Scene 1

# Chromatography

Chromatography was used to match the retention factor and coloring of the note to the pen.

Nancy Normal matches the pen at the scene, and the note clearly read that you are a dead man. This note is suspicious, and that helps prove her link to the crime. This also proves that she had planned to kill him, making it First Degree Murder.



# Fiber Analysis

When we looked and compared the fibers on the crime scene, we concluded that in texture, color, and structure, these fibers were human hairs. These human hairs belong to Nancy Normal, once again linking her to the crime.

# What Nancy Normal Should be Charged With

First Degree Murder Guidelines:

1. **Willful Killing:**

As explained previously, Nancy Normal was out for revenge and for a show of love

2. **Premeditated:**

Nancy wrote a note clearly saying that Carleton Comet was “A Dead Man.” This shows her premeditated thought to the killing

3. **Deliberation:**

She showed great thought when preparing for murder, such as waiting for the right time in the evening when no one could see, and waiting until they met up formally