

Scenario 1:

The results of the tests were as follows:

- The red stain on the carpet and the blood on the knife turned out to be the same type blood as Mr. Xavier.
- The autopsy showed that the cuts on the body matched the size of the knife's blade.
- The butler's fingerprints were on the knife.

Scenario 2:

The results of the tests were as follows:

- The stain on the carpet was wine and the blood on the knife turned out to be from a steak.
- The autopsy showed that the cuts on the body matched the pieces of glass from the broken window.
- The only fingerprints on the knife were Mr. Xavier's.

Scenario 3:

The results of the tests were as follows:

- The stain on the carpet was wine and the blood on the knife turned out to be from the steak.
- The wine was tested and found to contain a poisonous compound, hydrogen cyanide.
- The fingerprints on the knife belonged to the brother of the chef. His fingerprints were also on the wine glass.

Directions: Today you and your lab group will be working as a detective team. There has been a murder in the fancy area of Richtown, and your team was asked to solve the case. Read the case study below, and fill out the associated chart to present to your superior for review. Make sure to mark down all evidence and why it is relevant to the case. Remember your boss is not kind to people who slack off, so do your best work. Good luck.

Case Study: The Death of Mr. Xavier

Mr. Xavier was a man who was well known for his riches and for his unfriendly nature. He lived in a huge mansion by himself, except for his many servants and workers. He was very unkind to the people who worked for him. He avoided being around people because he was always very nervous and startled easily.

Upon arriving at the scene, you are told that the servants found Mr. Xavier dead in his home early this morning. The previous evening the chef had prepared the usual dinner for Mr. Xavier, two steaks cooked rare and two baked potatoes with sour cream. The servants had left early to avoid having to travel home during last night's terrible storm. When they returned in the morning, Mr. Xavier's body was found face down in the dining room.

Looking around the room, you start your investigation. The large window in the dining room has been broken and appears to have been smashed open from the outside. The carpet near the window is very wet. The body lies face down by the table and it has many cuts on it. There is a large red stain on the carpet that comes from under the body. An open bottle of red wine and a partially eaten steak still remain on the table. A chair that has been tipped over is next to the body, and under the table is a knife with blood on it. In addition, a bottle of heart medicine was discovered on a nearby table.

Mr. Xavier always had Kurt Wagner, the butler, lock all doors to the mansion at night. However, detectives found that the back door had in fact been left open. Detectives found that the chef, Robert Drake, had been the last employee to leave that night. When questioned, Mr. Drake stated that the doors are supposed to lock behind him when he leaves.



Examining the Death of Mr. Xavier

Detective Team members: _____

1. After reading, discuss as a team and have the recorder write down your ideas below:

Initial thoughts (predictions):

2. Obtain a “scenario” card from Ms. Gately that provides additional information, and re-consider your ideas based on new evidence.

Additional thoughts (new predictions):

3. Make a claim as to who your group believes is responsible for the death of Mr. Xavier.

Claim: Our group believes that _____ killed Mr. Xavier by _____.

4. Provide evidence and reasoning for your claim. Evidence is what you see or hear or know, and reasoning is why those facts support your claim.

Evidence:	Reasoning:
<i>Example: The body had many cuts on it.</i>	<i>The cuts were probably from stabs with a knife.</i>

