CSI Experience: Burning Star - Answers
Case 3

Go to: http://forensics.rice.edu/

Create a free account (user name and password) so you can return if you need to…otherwise you will have to start all over again when you return.

Click on Case Three: Burning Star

Talk to Grissom and answer the following question:

1. **What is the case?** A burned out car with a badly burned body
2. **What equipment do you need?** PDA and Tool Kit

Go to the crime scene and talk to Nick.

1. **Who found the car?** Two Teenagers
2. **Where is the body?** The Morgue
3. **What’s in the glove box?** Nevada Road Map
4. **What’s in the trunk?** Empty Liquor Bottle
5. **Explain the steps used to make a cast of the shoe prints:**
   1. Spray Hair Spray on the print
   2. Mix Dental
   3. Water
   4. wait __20 or 30___ minutes
   5. Use Spatula to carefully lift up impression.

When you have finished at the crime scene, return to headquarters and go to the morgue.

Talk to Dr. Robbins.

1. **Who is the victim?** White female approximately 20-25 years old, 5 foot 5 inches tall, about 115 pounds
2. **How can you identify her further?** DNA
3. **When did she die?** Two or Three Days
4. **What was the cause of death?** She was dead before the fire from a stab wound in her chest, the weapon pierced her heart, so it was a quick death.
5. **What do you know about the murder weapon?** A sharp weapon 5 inches in length. It left some striations on the rib cartilage
6. **How did you use the impression gel?** Used it on the rib cage to make a Stab Wound Impression

Go back to HEADQUARTERS and go to the LAB to talk to Catherine.

Summarize what you can do at the following stations:
1. **DNA Station:** Hair, Blood, Spit and Sweat this is the place to analyze it. The computer lets you do DNA samples through CODIS
2. **Fingerprint Station:** This station has all the powders and chemicals you need to process any type of fingerprints and use the computer to search IAFIS for prints.
3. **Digital Forensic Station:** They look through databases for things like license plates, addresses. They also analyze digital evidence like flash drives, computers etc…
4. **Light table:** This table is very useful for analyzing and comparing large pieces of evidence like shoe prints.
5. **Toolmark Comparison Station:** This station for comparing Toolmarks with the tools that make them. First you will make an impression then compare it under a microscope.

Go to the Fingerprint Station and collect prints from the liquor bottle.

1. **What method will you use?** Superglue Fuming Method
2. **How long does it take?** 10 minutes
3. **How does superglue fuming work?** Fumes from the evaporating superglue react with the amino acids and oils left behind on everything we touch. The reaction makes a white sticky material and makes the fingerprint easy to see
4. **What class characteristic is the print?** Loop
5. **List the 6 ridge characteristics you find:**
   1. Bifurcation
   2. Hook
   3. Ridge Ending
   4. Hook
   5. Lake
   6. Island

**After running the fingerprint analysis what did you find?**

- **Name:** Maury Wan
- **Occupation:** Publicity Agent
- **Address:** 1589 Avenue A, Las Vegas
- **Source:** Pre-Employment Background Check

Submit your DNA for analysis and answer the following questions.

1. **How many genetic markers are in a DNA profile?** 13
2. **What does CODIS stand for and what does it consist of?** Combined DNA Index System
3. **After running the victim’s sample through CODIS, what did you find?** There were no matches in CODIS

Return to the morgue and talk to Dr. Robbins again.

1. **What does he suggest?** Facial reconstruction
2. **What are the steps to facial reconstruction:***
1. Boil the skull
2. Add Tissue Depth Markers
   a. How many markers are used? 33
3. Attach various muscle and glands on the face.
4. Skin and features

Go to the AGENT’S OFFICE.

1. What information does Mr. Wan give you? Nothing

Go to Reynold’s residence.

Talk to the boyfriend, Lawrence Garvey:

1. What is his girlfriends’ name? Freebird Reynolds
2. When did he last see her? Two days ago
3. What was strange about dinner? She was nervous, on edge and not herself
4. Would anyone like to hurt Freebird? The boyfriend points to her agent Mr. Wan

Talk to Mrs. Reynolds:

1. When did she last see Freebird? Two days ago
2. Would anyone like to hurt Freebird? No

Show the facial reconstruction to Lawrence and Mrs. Reynolds.

1. What evidence do you collect at the Reynolds residence? DNA Swab of her mother
2. What clues do you find at the Reynolds residence? Freebird’s Computer

Return to the lab and analyze the DNA again.

1. What do you find? Sallie Reynolds is the victim’s mother
2. What do you need to do before you can compare the hunting knife to the victim’s wound impression? The weapon
3. What did you find?

Analyze Freebird’s computer.

1. What are the 2 parts of analyzing digital evidence?
   1. Create an Exact Copy of all Digital Evidence
   2. Analyze that evidence for interesting activity
2. What information did you find in Freebird’s email?
INBOX
1. Lawrence
2. Mom
3. #1 Fan

SENT
1. Mom and Lawrence

TRASH
1. Empty

3. What did you find in recent documents? Resignation Letter to Mr. Wan
4. What did you find in Recycling Bin? Empty

Return to AGENT’S OFFICE.

Ask Mr. Wan the following questions and record his answers:

1. Who would want to hurt Freebird? Lawrence, the boyfriend
2. Why were your fingerprints found on liquor bottle at crime scene? A publicity stunt to make her look like a good girl gone bad
3. What other clues have you found at Mr. Wan’s office? Mr. Wan’s Shoes

Return to the LAB and analyze Mr. Wan’s shoes. Is it a match? No

Return to the Reynolds house and talk to Lawrence again.

Ask him the following questions and record his answers.

1. Who’s truck is out front? Lawrence
2. Who’s knife is it? Lawrence Does not know
3. Are you aware the window is broken? No he does not
4. What evidence do you collect from Lawrence? Shoes, Fingerprints

What is the real name of No1FAN? Gabriel Tam

Return to the LAB and compare Lawrence’s shoes to the crime scene. Is it a match?

Go see Mr. Tam.

What evidence do you collect from his apartment?

1. His Shoes
2. His Computer
3. His Fingerprints
4. Sword

Compare Mr. Tam’s shoes to the case from the crime scene. Is it a match? Yes
Analyze Mr. Tam’s fingerprints.

1. **What will you compare them to?** Check the Ridges

Answer all of Grissom’s questions.

**Who killed Freebird?**