

CSI

CRIME SCENE INVESTIGATION...

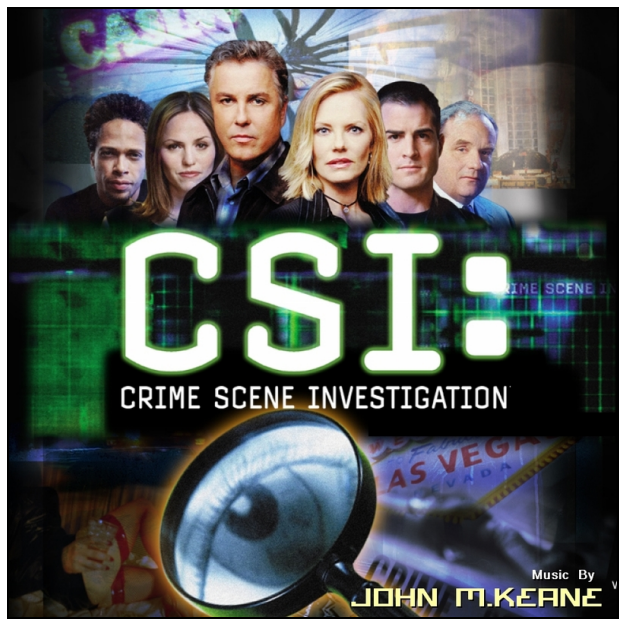


Most people are familiar with forensics as it is portrayed on television in such things as CSI, NCIS and other detective programs.

What is Forensics

Scientific tests or techniques used in connection with the detection of crime.

A laboratory or department responsible for tests used in detection of crime.



WHAT IS FORENSIC PATHOLOGY?



Forensic Pathology:

- **Forensic pathology** is a branch of pathology concerned with using medical principles and scientific procedures to analyze the physical evidence associated with criminal investigations.
- Healthcare professionals in forensics determine the cause of death, injury or disease.
- The autopsy is performed by the pathologist at the request of a coroner or medical examiner.
- Forensic pathologists are also frequently asked to confirm the identity of a cadaver.



Forensic Pathologist

The responsibilities of a forensic pathologist include:

- Studying the causes, nature and effects of disease and injury by conducting laboratory experiments.
- Studying tissue, fluids and cells of the human body.
- Applying medical facts to legal questions.

Forensic pathologists are medical detectives that present evidence that helps determine the cause of death.



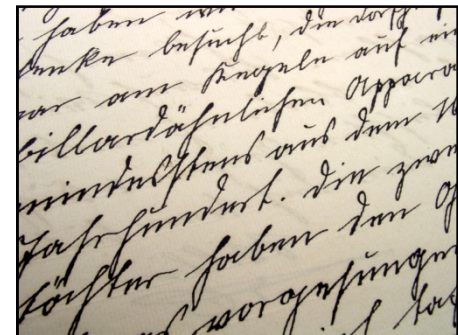
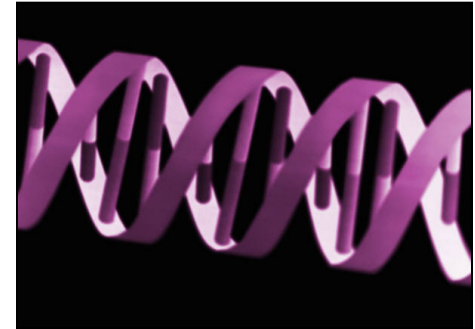
Other tasks ...

- Testify in court about investigative and analytical methods and findings.
- Keep records and prepare reports detailing findings, investigative methods and laboratory techniques.
- Interpret laboratory findings.
- Operate and maintain laboratory equipment.
- Collect evidence from crime scenes, storing it in conditions that preserve its integrity.
- Identify drugs and poisons found in body fluids, in foods and at crime scenes.



Other tasks ...

- Reconstruct crime scenes to determine relationships among pieces of evidence.
- Examine DNA samples to determine if they match other samples.
- Analyze handwritten and machine-produced written evidence to determine authorship, age or source.

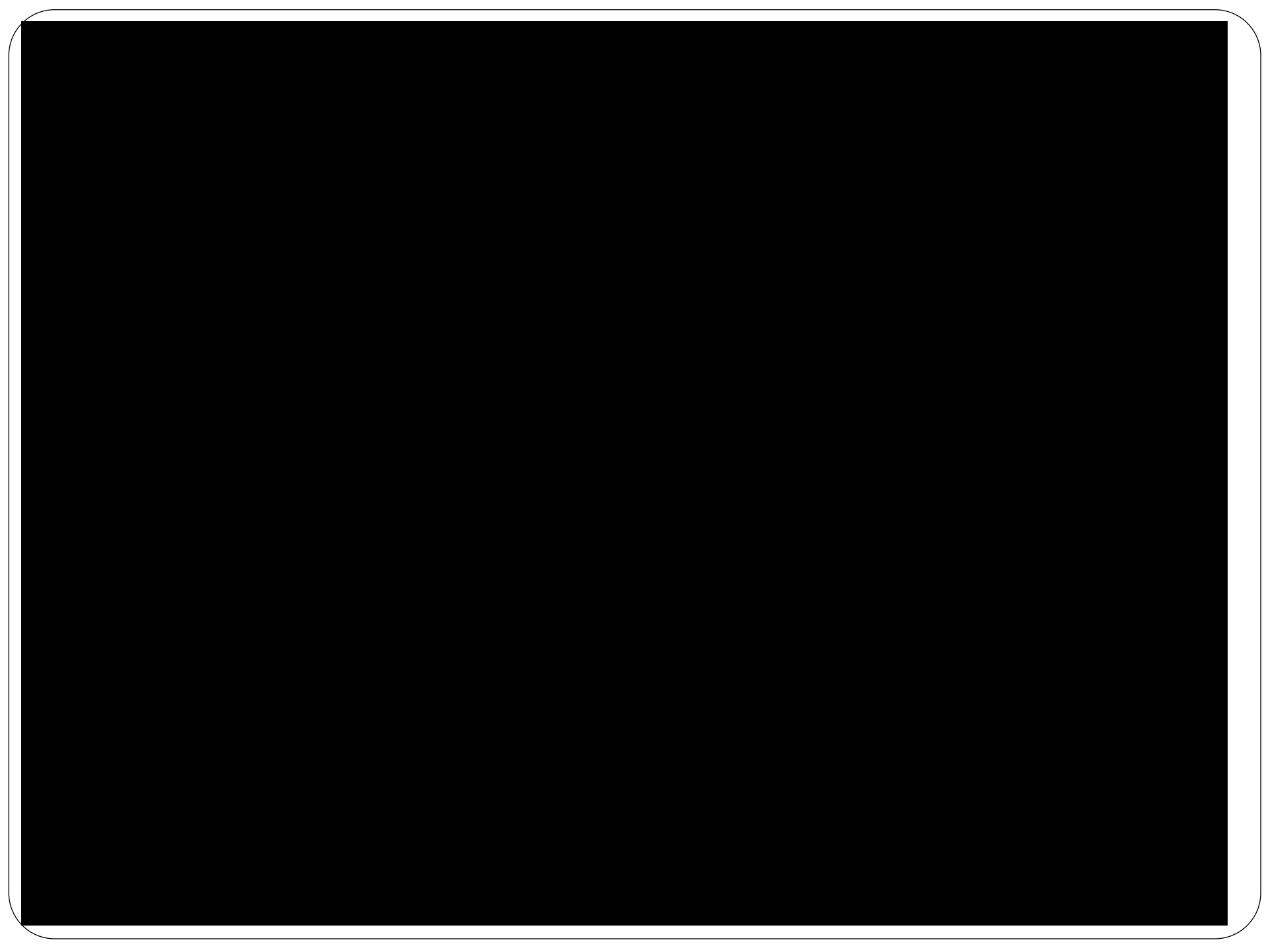


Needed skills...

- Science, chemistry, math
- Speaking
- Quality Control analysis
- Reading Comprehension
- Critical Thinking
- Active Listening
- Writing



- Forensic Pathologists must be very observant about even the smallest details.
How observant are you?



How many animals can you see in this scene?



Are you ready to try more of your observational skills?

Directions:

You will have 30 seconds to view the next screen.

Try to memorize all 20 items that you see.

You are NOT allowed to write anything down.

You CANNOT talk to anyone else.

Items to remember...



What do you remember?

You have 2 minutes to list as many of the items as you can!



How did you do?



All 20: Awesome!

15-19: Great

10-14: Pretty swell

5-9: Could be better

4 or less: Wake up

- Whether you are a forensic pathologist or an eyewitness, your ability to observe and recall details can be critical.
- According to the Innocence Project (2008) “Eyewitness misidentification is the single greatest cause of wrongful convictions nationwide, playing a role in more than 75% of convictions overturned through DNA testing.”

- Research shows that the human mind is not like a tape recorder; we neither record events exactly as we see them, nor recall them like a tape that has been rewound.
- Instead, witness memory is like any other evidence at a crime scene; it must be preserved carefully and retrieved methodically, or it can be contaminated.

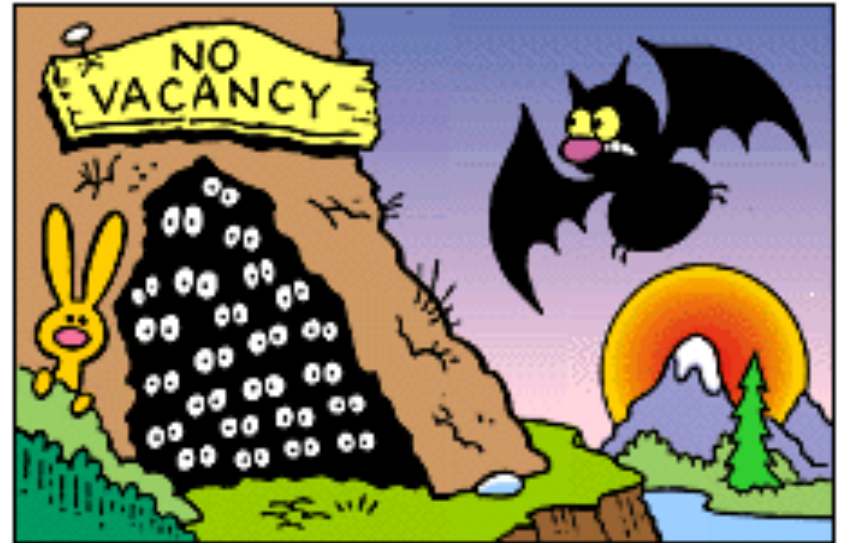
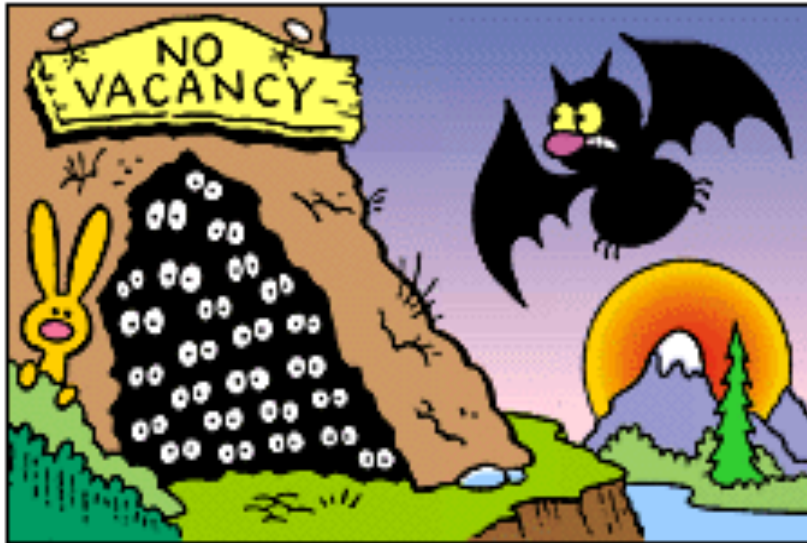


If you were looking at crime scene photos, could you tell that the evidence had been tampered with?

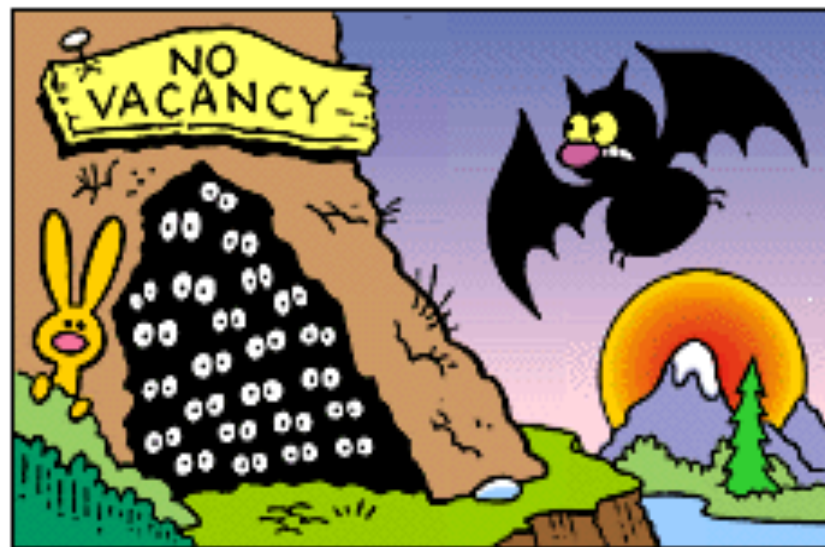
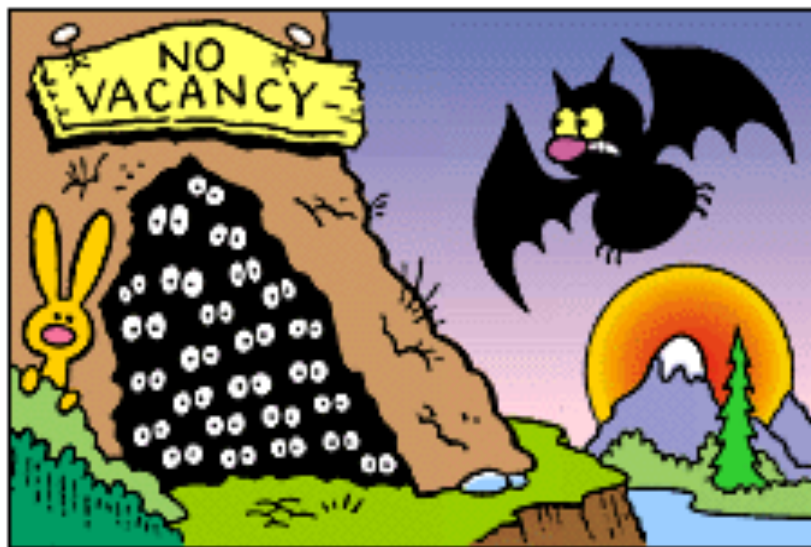
- Can you spot 5 differences in the two pictures?



Find the 6 differences between the two pictures



Answers: Nail, eyes in cave, bat's toes, pebble, snowcaps, tree



Let's practice with another spot the difference challenge...

- How many differences can you spot?



Crime scene challenge

- Now that your eyes and brain are warmed up, let's test your observation skill a little more.
- You will have 2 minutes to study the photograph of a crime scene on the next slide.
- Try to pay attention to details as you will be asked 10 questions about the crime scene!
- You are not allowed to write anything down until after the time is up.....

- Ready????





Answer each question below.

1. What color coffee mug was in the picture? Blue Red Yellow Green
2. When was the deadline? Yesterday Today Tomorrow June 3rd
3. What time was on the clock on the wall? 10:40 11:05 1:55 2:15
4. How many sticky notes were on the whiteboard? Four Six Eight Ten
5. Which of the following was NOT in the picture? Stapler Trash Can Printer
6. What was the name on the plaque on the desk? Bill Brian Carl Dave
7. What color was the victim's shirt? Black Blue Red Plaid
8. How many plants were in the picture? None One Two Three
9. What was the color of the marker in the desk drawer? Red Blue Green
10. Where was the book in the picture? On a box In the trash can Under the body

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The steps to become a Forensic Pathologist in the USA are:



- 1. **Pre-medical school:** 3-4 years
- 2. **Medical School:** 4 years
- 3. **Pathology Residency:** 4 years (if anatomical path residency) or 5 years (if combined anatomical plus clinical pathology)
- 4. **Fellowship:** 1-2 years





Money—Money—Money

Forensic pathologists' salaries average \$80,000 to \$200,000 per year depending on experience, job setting and responsibilities.



If you think this is a career for you.....

..... set your goals and WORK towards it!!!!



**And, perhaps this is the beginning of
a new career goal!**

Quiz

1. What does CSI stand for?
2. What is Forensics?
3. List one responsibility of a forensic pathologist.
4. List 2 other tasks of a forensic pathologist.
5. List 4 needed skills to be a forensic pathologist.
6. Forensic Pathologists must be very _____ about even the _____.
7. According to the Innocence Project (2008) “_____ is the single greatest cause of wrongful convictions nationwide, playing a role in more than ___% of convictions overturned through DNA testing
8. The human mind is not like a _____; we neither record events exactly as we see them, nor recall them like a tape that has been rewound.
9. What are the steps to become a Forensic Pathologist?
10. What is the average salary for a Forensic Pathologist?