



## CSI - PHOENIX

The CBS show CSI (Crime Scene Investigation) followed a much more rapid rise to fame with the American public. After just 10 months on the air, it became (and still is) the most watched television show in North America.

Arizona Outback Adventures has adapted the theme of CSI into a group scavenger hunt format, allowing teams to compete in an educational and exciting activity. With each member proficient in a specific navigational or crime solving skill, teams will work together to navigate their way to a series of crime scenes. Each location will be staged as a crime scene where teams must carefully search for clues, plus preserve and photographically document evidence to solve each particular case. Upon completion, the teams will hand in their evidence and receive lab results. Their final challenge will be to interpret the meaning of the clues and evidence, then attempt to solve the mystery: who has committed/masterminded this series of crimes!

**How it works:** The participants first receive their Team Bandanas. Each team member will typically learn one skill (map reading, area landmarks, team lead investigator, crime scene specialist, forensic technician). Once the skill-learning period is complete, the participants will regroup in their respective teams and take 5 minutes to establish an overall course strategy. The teams must navigate to various checkpoints on a map, and then take a picture of each crime scene, including the elements described in their clue sheet. Once the teams regroup to the command post and turn in the collected evidence, they will receive additional clues that will help them in completing their final report and ultimately solve the crime.

### WHY CRIME SCENE INVESTIGATIVE SCAVENGER HUNT?

- Individual and team decision-making and teamwork (not physical speed) are required to excel.
- It challenges team members to utilize many different types of information to form an overall strategy, which is efficient and best suited to their individual talents.
- It is a flexible program and can be tailored to all ages and ability levels. It is also adaptable to many forms of customization in order to fit specific company goals or ideas.



**Arizona Outback Adventures**  
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The game you and your team are competing in is called CSI Scavenger Hunt. Essentially, you must navigate to crime scenes marked on your map, collect evidence, and photograph the scene. You must also complete a short quiz and a Final Report before turning in your findings. Your team will be to collect evidence at each crime scene, to preserve all of the evidence for future examination, to determine what evidence should be turned in at the lab (biological), and receive lab results. Finally, to take a lead role in interpreting the meaning of the evidence you have collected.

**You will encounter two main types of evidence. They are:**

**Biological:** Biological evidence typically requires further examination and processing by the Crime Lab before it is of any use to the investigation. Some examples include:

- Blood / Hair / Urine
- Plant Fiber
- Organic Tissue
- Living organisms

**Non-Biological:** Non-Biological evidence is often physical evidence that requires interpretation, however does not require further processing at the Lab. It is important to keep this evidence, examine it carefully, plus try to interpret how (if at all) it fits into the specific case you are investigating. Some examples include:

- Weapons
- Written documents
- Clothing
- Any item collected from a crime scene that is non-organic and ready for immediate interpretation in its present physical state.

**The role of forensic scientists/investigators:**

Evidence comes in many forms. It may be given orally or in writing from an ordinary witness or an expert witness or a police officer or other. It may be in the form of physical objects obtained from a scene of crime or suspect some that are real exhibits in a case brought before a court. It can be physical material recovered in forensic examination or the adduced findings of such an examination, which can be used to suggest the occurrence of a fact. There are many other types of evidence that have particular meanings in law.

The Crime Scene Evidence Coordinators address issues relating to evidence, which emerges as a result of forensic examination, of scenes of crime and in the forensic or analytical laboratory. They focus on the interpretation of the findings in the context of the case and the presentation of these findings and expert opinion in the witness box. For example, a sample of colorless liquid obtained from the property of a suspect in a case of arson is found to be white spirit by gas chromatography - mass spectrometry. Examination of a sample of a solvent residue obtained from the scene of a fire appears to show a very different profile. How can these findings be interpreted, how do you arrive at an expert opinion, how do you present this to the courts and how do you defend your work under vigorous cross-examination?

The scientific interpretation of evidence emerging from an experiment to identify a substance might seem straight forward, especially where sound scientific principles underlie the methods employed in examination. For example, either the substance is or is not white spirit, or a specific amphetamine, or ammonium perchlorate or a type of glass. The interpretation of evidence can, however, be much more problematic where the interpretation is more difficult to frame on sound scientific principles. For example, is fingerprint or document or hair or earmark or fire scene examination based on sound scientific principles, and can any of these evidence types really be used to identify or implicate an individual? And how does natural variation (statistical randomness) or alternative hypotheses (statistical likelihood) affect any conclusions that can be made?

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# SAMPLE CSI Evidence

(Newspaper clipping found at one of the "Crime Scenes")

Associated Press: La Jolla, CA  
**Monday, May 15, 2008**

Mixing cacti and human eyes sounds painful, but a new breakthrough in vision correction research may soon perfect the vision of millions of Americans. In a news conference yesterday in Los Angeles, the physiological optics research company Optigen announced its bid for FDA approval of its new vision correcting eye drops. Although the proprietary research has been kept as a closely held Optigen secret, leaks to the media indicate that the active ingredient in the drops is an enzyme extracted from the tissue of a rare cactus.

The sudden announcement has created quite a stir in the vision correction industry over the last 24-hours. According to San Diego based Dr. Johan Blythe a word renown expert in physiological optics, "If the FDA approves these eye drops it will turn the entire vision correction industry upside down. Dramatically less expensive than lasik surgery, the drops will not only put an end to that industry, but make contact lenses and eyeglasses obsolete as well."

The Director of BioEngineering, Harvey Renaldo from Optigen, reported that this development will change this industry greatly. While interviewing Mr. Renaldo, La Jolla Press found that he is an avid cactus succulent collector, mainly the prickly pear cactus. His home is filled with real cactus plants and replicas to make him feel at one with this "species."

Optigen representatives report that the retail price for the drops will be under \$50.00 per dose of its "Protozyme Vision Correction Drops". Only 1 dose is required to restore normal vision to 97.6% of its animal research patients. They also assert that although research has only been conducted on rabbits, horses and dogs, there is no reason to believe that it won't be equally effective in human trials.

In related news Walmart stock is up 3-cents today in heavy trading just one day after reporting that (pending FDA approval) they have secured an exclusivity contract with Optigen to market the "Protozyme" to consumers in the US and Canada.