

Forensic Science  
Snow Day Packet

**DO NOT LOSE THIS PACKET!!**

This is the snow day packet that will be used to recoup class time lost for snow days #6 – 10. You must keep this packet in a safe place so that when snow days arise you have your assignments to complete. Each of these assignments will be for a grade. Those students who do not complete and turn in these assignments when they are due will receive a zero for that particular assignment.

**Assignment #1** (for snow day #6)

**Analysis of Forensic TV Program** – You may select any crime show to complete this assignment.

Examples: CSI Miami, CSI New York, NCIS, Bones, Criminal Minds, Law and Order, etc.

Follow directions on the handout and provide your responses in complete sentences.

**Assignment #2** (for snow day #7)

**The Case of the Missing Computer Chip** – Read the Introduction for the activity “The Case of the Missing Computer Chip”. Follow the instructions, use the information provided to complete this assignment.

**Assignment #3** (for snow day #8)

**Crime Scene Investigation Refresher** – Use your text book to complete the handouts on Crime Scene Investigation

**Assignment #4** (for snow day #9)

**Forensic Science Content Review** – Use the glossary in your text book to complete the vocabulary review.

**Assignment #5** (for snow day #10)

**Famous Case Analysis** – Read Information for the Casey & Calee Anthony Case and complete a one page summary. (see instructions provided)

<b>Name of the Program</b>	<b>CSI MIAMI</b>		
<b>Title of the Episode</b>			
<b>Episode First Airing Date</b>			
<b>What was the crime?</b>			
<b>Who is (are) the victim(s)?</b>			
<b>Who are the suspects?</b>			
<b>How was the crime scene secured?</b>			
<b>Was any evidence compromised as a result of the crime-scene processing? Explain.</b>			

<b>Examples of evidence:</b>				
<b>1. Biological evidence</b>				
<b>2. Trace evidence</b>				
<b>3. Circumstantial evidence</b>				
<b>4. Direct evidence</b>				
<b>5. Individual evidence</b>				
<b>Most useful evidence in solving this crime—explain.</b>				

# THE CASE OF THE MISSING COMPUTER CHIP

## (IT'S PLUM CRAZY TO STEAL FROM US)

### INTRODUCTION

It's the morning of July 5 in the northern California city of Cupertino. You are working the burglary watch, day shift. As commander of the electronic theft division you have a team of experts, skilled in the collection of all types of evidence relating to theft of computers and electronic stuff. At 9:50 a.m. you get a call that someone has attempted to steal an advanced chip from the Plum Computer Company. You and your team respond immediately to the call. When you arrive, you find that the plant is sealed off and all the uniformed employees in the plant have been confined to a single room, the lounge. Within the hour, the missing chip is found in an envelope in a pile of mail. The envelope was addressed to Gordon Lidy, the security chief of a rival computer firm. A cassette tape was also found in the envelope.

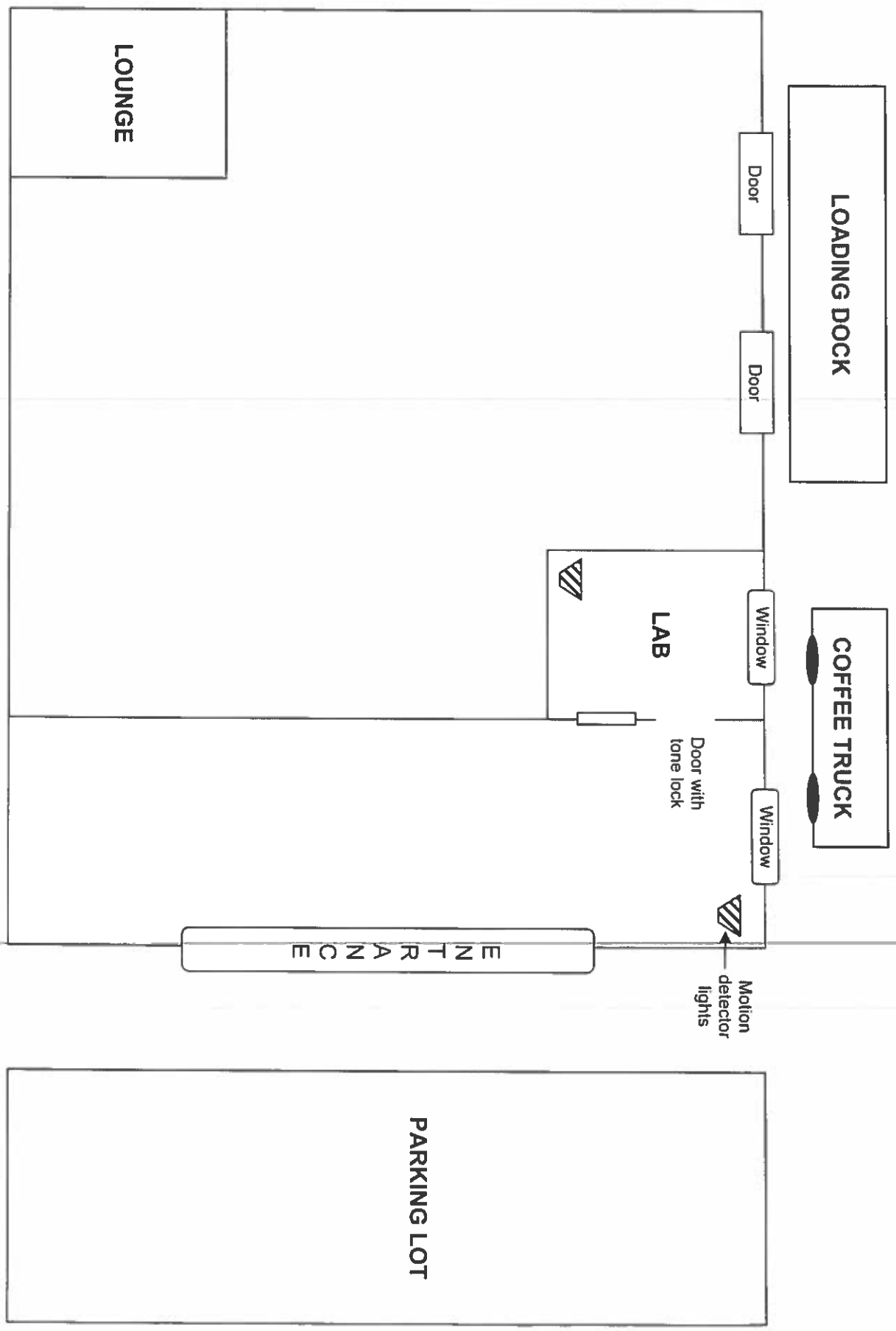
You assign one of your best officers, JoAnn Lane, to interview everyone present. Here is what she finds:

- A. Steve Randak, the president, arrived at 8:50 this a.m. to find the tone-operated security door to his private lab open and the prototype of his new computer chip missing. He immediately pushed the panic button that alerts security to close the gates. The guard at the gate reported that no person had left the plant since 8:00 a.m. today.
- B. A map of the crime scene
- C. Jo Ann begins accumulating clues, and as she does, tries to develop a hypothesis for how it was done, and who did it. She keeps her clues in an envelope.

### Instructions:

1. Read the Instructions (above)
2. Study the map of the crime scene provided.
3. After reading the introduction and studying the map of the crime scene you will examine the 14 clues provided.
4. Using the information at hand, try to solve the crime.
5. Organize the evidence from the clues provided.
6. Use the clues, and label any evidence that can be diagramed on the crime scene map.
7. After carefully analyzing your crime scene map and the clues, you are to write a summary of the crime that occurred. In your summary, identify who you believed committed the crime and provide your reasoning and evidence to support your claims.

MAP OF THE CRIME SCENE



Based on "CRIME SCENE: The Case of the Missing Computer Chip" from ENSWeb, by Mike McNabb, Tom Wats, and Ruth Willey [http://www.andlunq.edu/~ensweb/lessons\\_crime.html](http://www.andlunq.edu/~ensweb/lessons_crime.html)

## THE 14 CLUES

Doug, the man who operates the coffee cart in the parking lot (see map) reports that he has not seen any strangers today. In fact, this is what he reports: "I saw the security guard arrive at 7:00 for the shift change, same time as Cowboy Paul's delivery truck. The security guards came out playing with those night sticks and the Cowboy was listening to that 'Hillbilly' music on his headphones, when they came out for a cup of coffee."

According to Coffee Cart Doug, the lab assistant, Ginny, "arrived at 7:15, turned the lights on in the office for about 5 minutes, just like always. And then about 7:50, the lights came on and I could see Ginny working in the lab."

Coffee Cart Doug reports: "About 7:30, the lights came on again in the lab for about 5 minutes. They have those motion sensor lights, you know."

Coffee Cart Doug reports: "Then at 8:00 the loading crew arrived and started unloading Cowboy Paul's delivery truck."

Coffee Cart Doug reports: "Nobody else came or left till Randak arrived at 8:50 which was actually early for him. Couple minutes later the police arrived."

Ginny reports: "I got to work at the usual time and opened the office just before 8:00. Nothing unusual happened."

Security Guard Jim's statement: "My shift starts at 7:00; I had a cup of coffee with Cowboy Paul and Buck, the night guy; then I did my rounds and found everything was secure."

Cowboy Paul's statement: "I arrived about 7:00 a.m., had coffee with the security guards and waited for the loading crew to unload my trailer. I was just about to leave when the alarm went off and I got locked in. "

MOTIVE: Cowboy Paul: Seems to live beyond his means according to security guard; drives Porsche and wears Rolex watch. Owns three Kentucky thoroughbred race horses. But he still loves Levis. He needs money.

MOTIVE: Security Guard Jim: 'Hacker'; wants to be the first on his block to have new stuff.

MOTIVE : Ginny Fletcher: Actually developed algorithm for this computer chip and has received no financial or professional recognition for her contribution. She feels shortchanged.

EVIDENCE: Fingerprints: In the lab a single partially smudged print was found and since all employees have prints on file, it was easily ascertained it belonged to persons unknown.

EVIDENCE: Fiber Evidence: A small thread that was later identified by the police as denim was found by Randak when he microscopically examined the chip to verify it as his missing chip. Also found were small white crystals of sugar.

EVIDENCE: Misc. Evidence: The door to the private lab is secured by a tone lock. Known access is limited to president and assistant.

Name: \_\_\_\_\_

## **Crime Scene Investigation (starts page 25)**

### **Seeing the Scene**

1. List at least two things an investigator should take photos of.

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### **Sketching the scene**

2. Read the second sentence of this paragraph. It is describing what triangulation is. Explain triangulation in your own words

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3. What should be in your crime scene sketch?

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### **Securing and collecting evidence**

4. The chain of custody document must be attached to the evidence container. List all the information that should be included in that document.

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Name: \_\_\_\_\_

5. Look at figure 2-5. Describe how dry evidence should be packaged. (your evidence will be in a package but you still have to collect it properly).

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6. Why is the chain of custody document important?

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### **Crime-Scene Reconstruction**

7. What does crime scene reconstruction involve?

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8. Why is it important for investigators to keep an open mind?

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Go to page 33. Answer questions 4& 5. 4. \_\_\_\_\_ 5. \_\_\_\_\_

Go to page 35. Answer Case 1.

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**Vocabulary:** Using your text book copy the definitions for each of the following words.  
Copy the ENTIRE definition. Use correct spelling and legible writing.

1. analytical skills - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. ballistics - \_\_\_\_\_  
\_\_\_\_\_

3. Biological Profile - \_\_\_\_\_  
\_\_\_\_\_

4. criminalistics - \_\_\_\_\_  
\_\_\_\_\_

5. deductive reasoning - \_\_\_\_\_  
\_\_\_\_\_

6. Forensic entomology - \_\_\_\_\_  
\_\_\_\_\_

7. evidence - \_\_\_\_\_  
\_\_\_\_\_

8. eyewitness - \_\_\_\_\_  
\_\_\_\_\_

9. fact - \_\_\_\_\_  
\_\_\_\_\_

10. forensic - \_\_\_\_\_  
\_\_\_\_\_

11. individual evidence - \_\_\_\_\_  
\_\_\_\_\_

12. Forensic Anthropology

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13. Forensic Botony

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14. odontology

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15. toxicology

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16. pathology

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17. perception

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18. polygraphy

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19. probable cause

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20. statutory law

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# CAYLEE CASEY Anthony



Caylee was a two-year-old who lived with her mother, Casey, and her grandparents. On July 15, 2008, the grandparents reported her missing and that their daughter's car smelled like a dead body had been inside it.



Casey Anthony was one of two children of Cindy and George Anthony. She slipped into the national spotlight when she vanished 31 days before reporting her daughter's disappearance.

## Casey - the early years

Born on March 19, 1986, in Warren, Ohio, Casey Anthony was one of two children, she has a brother named Lee. Her mother was a nurse and her father worked in law enforcement. Casey was a bright, personable young girl, with friends and what many thought was an ordinary American family. However, friends say that a pattern of lying began when Casey was in high school. Cindy and George attended Casey's graduation, along with Casey's grandparents—only to discover that she was



several credits short of graduating. Casey had stopped attending classes toward the end of the school year, but led her family to believe she would walk with the graduating class. When she was 19, Casey gave her family yet another shock. She had put on weight, and her parents suspected she was pregnant. Casey denied it, claiming she was a virgin. Seven months into her pregnancy, she told her parents the truth. The identity of the baby's father, however, remained a mystery. Casey pointed to different men, including her fiancé, Jesse Grund, as well as a young man she had dated previously, who had died in a car crash. On August 9, 2005, Caylee Marie Anthony was born. A friend of Casey's said that Casey had discussed giving the baby up for adoption, but was discouraged by her mother. For the next few years, Casey and Caylee lived with her parents, with Grund acting as the baby's father. Grund believed Caylee might be his baby, despite knowing that the timing of her conception made it improbable. A DNA test would later find that Grund was not Caylee's father.



## Caylee - the disappearance



While living with her parents in Orlando, Casey and her mother Cindy had a fight on June 15, 2008. After seeing a photo online of Casey at a "no clothes party," Cindy accused Casey of being an unfit mother, and threatened to try and get custody of Caylee. The day after the argument, Casey left her parents home, taking Caylee with her. She told Cindy and George that she planned to travel to Tampa to work at Universal Studios. Over the next 31 days, Cindy called her daughter to check on Caylee. Each time, Casey told her the little girl was out with a babysitter named "Zanny" Fernandez-Gonzalez.

On July 13, 2008, Cindy and George Anthony received a letter saying that Casey's car was in a low yard. When George went to pick the car up, he found Casey's purse, along with Caylee's car seat and toys. George noticed a strong smell, like that of organic matter decomposing, coming from the trunk. Alarmed, Cindy found Casey with her boyfriend, Tony Lazaro, and brought her home. Casey broke down, telling her mother and brother Lee that she had left Caylee with the nanny Fernandez-Gonzalez in Orlando on June 16, and that Gonzalez had kidnapped the toddler.



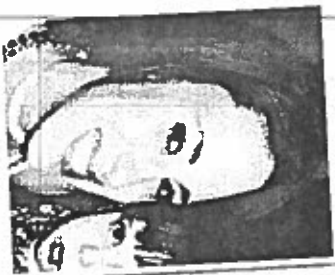
## KIDNAPPED

On July 15, 31 days after two-year-old Caylee's disappearance, Cindy Anthony reported her missing to the Orange County Sheriff's Office. After questioning Casey, detectives found discrepancies in a signed statement she made about Caylee's disappearance. Casey said Caylee was kidnapped in Orlando by her nanny, Gonzales. Casey's friends and family had never heard of Gonzales, and detectives later discovered that, in fact, there was no nanny. The investigators caught Casey in another lie when she told them she worked at Universal Studios, even leading them around the theme park. Casey finally admitted she had been fired from Universal Studios years before. She was arrested the next day.



# evidence and trial

On Friday, October 24, 2008, a forensic report by Dr. Arpad Vasz judged that results from an air sampling procedure (called IIRG) performed in the trunk of Casey Anthony's car showed chemical compounds "consistent with a decomposition event" based on the presence of five key chemical compounds that Dr. Vasz' research group considers typical of decomposition. Investigators stated that the trunk smelled strongly of human decomposition.



In October 2009, officials released records of Google searches from the Anthony home of the terms "neck breaking" and "how to make chloroform."



On her MySpace page - Casey Anthony typed, "Everyone Lies, Everyone Dies."

As the search for Caylee intensified, Casey Anthony came under increasing scrutiny for her actions in the days before Caylee was reported missing—including partying and, on July 2, getting a tattoo that reads "Bella Vita," or "beautiful life" in Italian. Casey was released from custody on August 21, when bounty hunter Leonard Padilla posted \$500,000 in bail. Padilla hoped Casey would lead detectives to find Caylee, once she was released from prison, but he was disappointed when she failed to provide additional clues. Casey was back in jail only eight days after being released, this time charged with forging checks and using a friend's credit cards without permission.



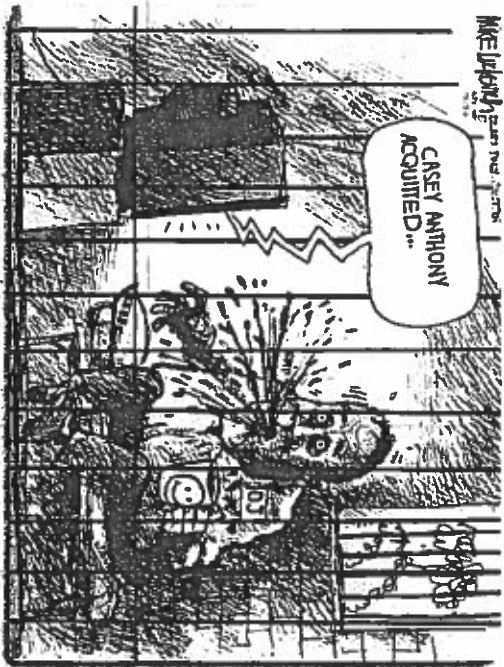
On December 11, 2008, meter reader Roy Kronk found a plastic bag of human remains in a wooded area near the Anthonyms' home. The skull had duct tape on it. On December 19, 6 months after she disappeared, the remains were confirmed to be those of Caylee Anthony.

The trial of Casey Anthony began in June 2011, three years after the disappearance of her daughter, Caylee. The prosecution painted a picture of Casey Anthony as a promiscuous party girl, unconcerned with her missing daughter, and responsible for her murder. Casey's defense, led by Jose Baez, told a very different story. According to the defense, Caylee had drowned in the family's pool on June 16, 2008—and George Anthony had covered up the death so that Casey wouldn't be charged with child neglect. Baez shocked the courtroom when he said George had in fact sexually abused Casey, beginning when she was 8 years old—and that her brother Lee had made sexual advances towards her and may in fact be Caylee's father. A paternity test showed that Lee Anthony was not Caylee's father. Baez also stated Casey was used to 'covering out' in order to cover up her emotional pain. On June 30, the defense rested. Casey herself did not take the stand.

In June of 2008, George Anthony reported two gas cans were stolen from a family shed. Afterwards, Casey Anthony admitted to stealing the gas cans, and when the cans were returned, duct tape found on one of the cans was the same type found on Caylee Anthony's body.



# verdict



MIKE JORDAN/GETTY IMAGES

<p>On July 5, the jury found Casey Anthony not guilty of first-degree murder, aggravated manslaughter, and aggravated child abuse. She was found guilty on four counts of providing false information to a law enforcement officer, and</p>	<p>sentenced to one year in jail and \$1,000 in fines. She received credit for time served and good behavior, and was released on July 17. Many in the public and the media were outraged at the not guilty verdict, bringing comparisons to the trial of O.J.</p>	<p>Simpson in 1995. The aftermath of the trial brought about a slew of bills in several states for "Caylee's Law," a law that would make it a felony for a parent or legal guardian not to report a missing child.</p>
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Caylee & Casey Anthony Case Analysis

Complete a one page written summary about the case provided. Your summary should include major details of the crime, evidence, and outcomes of the case.