 

Unit 5 Outline and Objectives

Drugs and Toxicology (Efird’s Fave!)

**Knowledge:**

1. Define toxicology and describe the functions of a forensic toxicologist.
2. Explain the three ways a person can be exposed to toxic substances.
3. Compare the term toxic substance and poison.
4. Compare physiological and psychological effects caused by toxic substances.
5. Compare physical and psychological dependences.
6. What are the 5 main categories of drugs and describe:
	1. Role the drugs plays on your body
	2. Examples
	3. Any physical or psychological effects?
7. What is the DEA and describe the 5 drug schedules.
8. How is chemical analysis used to identify drugs? Discuss the theory of chromatography and how it’s used in a forensic lab.
9. Compare and contrast the five color tests used for drug identification.
10. Discuss the microcrystalline test.
11. What is instrumental analysis and compare spectrophotometry with mass spectrometry.
12. Compare screening testing/presumptive testing and confirmatory testing.
13. Discuss some common poisons and their effects on the body.

**Skills**:

1. Be able to identify illegal substances and communicate the harmful effects caused on the human body systems.
2. Use several chemical tests to determine an unknown substance.

**Case Studies: Make sure you mention the drug/poison that was used.**

\*Nannie Doss (1900’s) \*Tylenol Murders (’82)

\*Jonestown Tragedy (’78) \*Alexander Litvinenko

\*Marie Besnard (Black Widow of Loudun) \*Donald Harvey (the angel of death)

Celebrity Deaths (Will be done together): Heath Ledger, Michael Jackson, Elvis Presley, Anna Nicole Smith, Whitney Houston, Cory Monteith, Jimi Hendrix, Jim Morrison

Online Assignments: Found on weebly, submit to schoology. 4 Total: 1. Overdose or Poison; 2. Abused Drugs; 3. Drug Info Sheet; 4. Legalize-Yay or Nay

 

Unit 5 Outline and Objectives

Drugs and Toxicology (Efird’s Fave!)

**Knowledge:**

1. Define toxicology and describe the functions of a forensic toxicologist.
2. Explain the three ways a person can be exposed to toxic substances.
3. Compare the term toxic substance and poison.
4. Compare physiological and psychological effects caused by toxic substances.
5. Compare physical and psychological dependences.
6. What are the 5 main categories of drugs and describe:
	1. Role the drugs plays on your body
	2. Examples
	3. Any physical or psychological effects?
7. What is the DEA and describe the 5 drug schedules.
8. How is chemical analysis used to identify drugs? Discuss the theory of chromatography and how it’s used in a forensic lab.
9. Compare and contrast the five color tests used for drug identification.
10. Discuss the microcrystalline test.
11. What is instrumental analysis and compare spectrophotometry with mass spectrometry.
12. Compare screening testing/presumptive testing and confirmatory testing.
13. Discuss some common poisons and their effects on the body.

**Skills**:

1. Be able to identify illegal substances and communicate the harmful effects caused on the human body systems.
2. Use several chemical tests to determine an unknown substance.

**Case Studies: Make sure you mention the drug/poison that was used.**

\*Nannie Doss (1900’s) \*Tylenol Murders (’82)

\*Jonestown Tragedy (’78) \*Alexander Litvinenko

\*Marie Besnard (Black Widow of Loudun) \*Donald Harvey (the angel of death)

Celebrity Deaths (Will be done together): Heath Ledger, Michael Jackson, Elvis Presley, Anna Nicole Smith, Whitney Houston, Cory Monteith, Jimi Hendrix, Jim Morrison

Online Assignments: Found on weebly, submit to schoology. 4 Total: 1. Overdose or Poison; 2. Abused Drugs; 3. Drug Info Sheet; 4. Legalize-Yay or Nay