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Crime Lab: Toxicology Unit Study Guide

\*Find the following vocabulary word in your notes. Either highlight them or rewrite them on a separate sheet of paper.

Vocabulary:

Toxicology

Toxin

Toxicity

Field test

Screening test

Confirmatory/lab tests

Chromatography

Spectrophotometry

Mass spectrometry

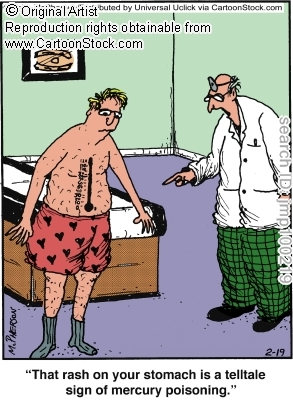
LD50

Chronic exposure

Acute exposure

Synergism

Antagonism



Locate these articles/your notes and review them.

Cases:

Charles Hall

Eva and Carroll Rablen

Famous Poisoning Student Projects

Answer these questions on a separate sheet of paper.

Concepts:

1. What are instances in which toxicology testing is needed in forensics?
2. Describe 5 factors determine how toxic a substance will be to a person.



1. Distinguish between chronic and acute toxic exposure.
2. a. The increased effects can the combination of 2 or more chemicals have on their level of toxicity is called: . Give an example that explains how this works.

b. The decreased effects can the combination of 2 or more chemicals have on their level of toxicity is called: . Give an example that explains how this works.

1. Name 4 agencies that are involved in regulating toxic substances in the U.S.

1. 3.

2. 4.

1. Describe 3 methods that can ID drugs or other toxic chemicals.

1.

2.

3.

1. Explain why both field tests and laboratory tests are used in the identification of an unknown substance.
2. List 5 tissues/fluids that can be collected from a person to try and identify a particular toxic chemical.

1. 3. 5.

2. 4.

1. Distinguish among the purposes of chromatography, spectrophotometry and mass spectrometry.
2. From the Famous Poisoning Student Projects: what are examples of poisons used to harm or kill people? What are their effects? What is notable about each individual case?

