

APES- UNIT #5 & 7- STUDY GUIDE

This is a study guide to help you prepare for the exam on units #5 and unit #7. Unit #5 is focused on Environmental History, Laws and Important People. Unit #7 is focused on Toxicology and Waste Management.

Textbook Reference:

Botkin & Keller: Chapter 10

Chapter #10- PowerPoint (Lecture & Notes)

Chapter #23- Guided Reading

Chapter #7- Guided Reading

Barron's: How to Prepare for the APES Exam

Solid and Hazardous Waste- PPT

Environmental History and Laws- PPT

Outside Reading/Viewing:

Kermit or Kermette- Case Study

The Love Canal- Case Study

“Tuna for Lunch”

Movie-“Erin Brockovich”

The Story of Electronics/Cosmetics

“Terra Blight”

Radon Activity

Decibel Dilemma

“Addicted to Plastic”

Activities/Labs:

LD-50 Lab (*Brine Shrimp*)

Nicotine Toxicity Lab

Salinity Lab (*Lettuce Seeds*)

Radiation Lab (*Irradiated Seeds*)

APES Internet Activity- *“Toxins in Your Neighborhood”*

APES- **Toxicology Problem Set**

Toxin Research Assignment

Home Toxic Audit

Calculating your LD-50

Bioremediation

Excessive Packaging Project

Addicted to Plastic- Project

Terms to Know:

Sanitary Landfill

Bioremediation

Environmental Laws (flashcards)

Environmental History (Timeline)

Economics of Environmental

NIMBY

Externalities

Know the following toxins:

Lead, Mercury, Arsenic, BPA, DDT, Atrazine, Dioxin,

Radon, Carbon Monoxide, Asbestos, Cadmium, Methane, Leachate

Terms to Know:

Toxicity

Toxicology

Point Source/Non-Point Source

Mobile Source

Area Source

Heavy Metals

Bioaccumulation

Biomagnification

body burden

hazardous waste/chemicals

organic compounds (POP's)

Synergism

HAA's

Acute Effect/Chronic Effects

Thermal Pollution

Toxic

Dose/Response

Risk

Mutagens/teratogens

Carcinogens

Pathogens

Radon

Polluted versus Contaminated

LD-50/ED-50

Threshold Concentration

Epidemiology

Noise Pollution

Endocrine System/Immune System

Integrated Waste Management/Leachate/Methane

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LOREM IPSUM DOLOR SIT AMET

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LOREM	+++	125
IPSUM	++	145
DOLOR	+++	265
AHMET	++++	290



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