

APES – Review Book - Activity – CHAPTER 9

READ the Chapter 9 Review and complete the following WS. Please study the summarized content to help you understand the **KEY Terminology** and the **KEY concepts**.

The responses are hand generated (in PEN). You don't need to print this document; you just need the lined paper to respond to the questions.

- I. Copy the **Key Terms** and define them all. Make sure to memorize the terms. *(There will be quiz on each Chapter Review)*
- II. Answer the **Comprehension Questions and/or Concept Topics**:

1. STUDY and IDENTIFY types of **Solid waste and the Disposals**:

A) UNDERSTAND the sources of different wastes

- a) DEFINE: **industrial solid waste**
- b) DEFINE: **municipal solid waste**
- c) DEFINE: **open dumping** in developing countries

2. MEMORIZE: **Methods of waste disposal**:

A) DEFINE: **LANDFILLS**

- a) STUDY the **structure and layers of the landfills**
- b) MEMORIZE the **advantages and disadvantages (at least 2/each)**

B) DEFINE: **INCINERATORS**

- a) UNDERSTAND the operation
- b) disposal of toxic ash!
- c) MEMORIZE the **advantages and disadvantages (at least 2/each)**

C) MEMORIZE the **methods of the waste reduction**,

- a) **REDUCE** – MEMORIZE two examples
- b) **REUSE** – MEMORIZE two examples
- c) **RECYCLE** – MEMORIZE two examples

3) UNDERSTAND and DEFINE the **Hazardous Waste Disposal**:

- 1) MEMORIZE the sources and examples
- 2) MEMORIZE Integrated Management of Hazardous Waste
 - a) producing less and recycling – LIST two examples
 - b) converting to LESS Hazardous Substances
 - 1) DEFINE and give two EXAMPES of **chemical methods**
 - 2) DEFINE and give two EXAMPES of **physical methods**
 - 3) DEFINE and give two EXAMPES of **biological methods**
 - I) **bioremediation**
 - II) **phytoremediation**
- 4) DEFINE and give two EXAMPES of **INCINERATION**
- 5) DEFINE and give two EXAMPES of **plasma arc torch methods**

4) MEMORIZE and IDENTIFY: **Methods of Storing Hazardous Waste:**

A) DEFINE: **deep-well disposal or injection**, MEMORIZE the disadvantage and advantage

B) DEFINE **surface impoundment**, MEMORIZE the disadvantage and advantage

C) DEFINE **hazardous waste landfill**, MEMORIZE the disadvantage and advantage

5) **STUDY AP Tip!!!** As a good examples and Case Study

6) **MAKE a LIST of all the Hazardous Waste Legislation** and **MEMORIZE** them. In 1-2 sentences summarize what is the legislation protecting, pg 266