

## APES – Review Book - Activity – CHAPTER 7

**READ the Chapter 7 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 **MINING**

**A) Surface mining**

- a) strip
- b) mountaintop
- c) open-pit

**B) Subsurface mining**

**C) Drilling**

What do we mine for?

What do we drill for?

2. DEFINE the **Habitat Degradation** caused by mining and drilling. List and DEFINE all the terms associated with mining – overburden, spoil, tailing, acid mine drainage, and toxic/hazardous emissions.

3. DEFINE and MEMORIZE the terminology connected to **Mineral Resources** and **ORE**

A) metallic minerals – **aluminum, iron, lead, chromium, manganese, nickel, silver, and gold**

B) nonmetal minerals – **sand, gravel, limestone, clay, asbestos, talc, salt**

4. STUDY and MEMORIZE the **Tectonic Plate theory** (Alfred Wegener) memorize the types of plate boundaries:

**a) divergent plate boundary** – 2 oceanic plates separate – molten rock flows up

**b) convergent plate boundary** – oceanic and continental plate converge

**c) transform fault** – 2 plates are sliding against each other – San Andreas Fault, California

5. STUDY **Mineral Deposit** – **EXPLAIN** how different minerals are formed – the Rock Cycle

6. MEMORIZE the Mineral Processing – removal of metals from the ore

a) smelting

b) cyanide solution mining

c) heap-leach extraction

d) recycling – the option to increase the reserves

7. DEFINE and MEMORIZE the types of Fossil Fuels, make sure to learn the following for all the nonrenewable resources (**coal, oil, natural gas, nuclear energy**):

1. form of extraction

2. energy efficiency

3. subsidized, yes/no and why

4. major environmental destruction – water/air pollution

8. DEFINE and MEMORIZE the types of **Renewable Energy**, make sure to learn the following for all the renewable resources (**hydroelectric power, solar, wind, biofuels, geothermal energy**):

1. form of harvesting
2. energy efficiency
3. subsidized, yes/no and why
4. major environmental destruction – water/air pollution
5. major benefits

9. EXPLAIN how **cogeneration works** – give two examples

10. Make a list of all the nuclear power plants disaster and memorize the year, with a location

11. What is the **AP Tip** about?

12. STUDY and MEMORIZE all three examples of **Energy Conservation**

- a) decrease energy for transportation
- b) decrease energy for heating
- c) decrease electricity use