

Unit 2
Lesson 4
Guided Notes

Name _____ # _____ class _____

Section 1: Humans Affect Earth's Systems

- The biosphere contains the _____ amount of matter of the four systems and _____ make up only a small part of it
- People use _____ to meet their needs but are using the supply up
 - Scientists and engineers are working to develop other _____ sources

Section 2: Farming Affects Earth's Systems

- Farming affects the hydrosphere
 - _____ materials are materials that cause injury or death to an organism.
 - _____ is the presence of anything in the environment that can harm living things or damage natural _____.
 - _____ and _____ chemicals cause water pollution.
- Farming affects the atmosphere
 - Large quantities of _____ cows produce contributes to global warming.
 - Farmers also spray _____ chemical that mix with the air
- Farming affects the geosphere
 - Rich _____ is often blown away by wind when plowed
 - _____ plowing helps reduce soil erosion.

Section 3: Industry Affects Earth's Systems

- Industry affects the hydrosphere
 - _____ have found different ways to change the way a river flows to help _____ but this can cause issues.
 - _____ power plants warm up the water, which is also a form of water pollution

- Industries affect the atmosphere
 - _____ release harmful _____ into the air.
 - Some _____ in the air combine to form _____ that dissolve in raindrops.
- Industries affect the geosphere
 - _____ need raw materials that are often _____ from the geosphere.
 - Mining creates land, water, and _____ pollution. It also _____ the soil with harmful chemicals.
 - Factories also cause land pollution because they create large amounts of _____ and _____.

Section 4: Scientists Study Pollution

- Scientists collect information by asking questions. Specific questions can be answered with data that come from doing _____.
- When studying pollution, scientists learn how people can use _____ to protect the _____.