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so many fake sites. this is the first one which worked! Many thanks

Section 3.2 How Humans Influence Ecosystems

Comprehension Sustainability Page 46

- Sustainability is the ability of an ecosystem to sustain ecological processes and maintain biodiversity over time. It also means that humans use natural resources in a way that maintains ecosystems health now and for future generations.
- Habitat loss refers to the destruction of habitats with habitat fragmentation is the division of habitats into smaller, isolated fragments.
- Deforestation is the practice in which forests are logged or cleared for human use and never reforested. The practice results in a reduction of the number of plants and animals living in an ecosystem. Erosion occurs since the plants are left to hold the soil in place. As a result of the erosion, nutrients are lost to plants are not able to grow.
- Aeration, or breaking up compacted soil, reduces run-off by increasing the movement of air and water through soil.
- Examples of contamination due to mining could include production of chemicals, toxics, metals, or micro-organisms into the environment.
- Overpopulation can result in extinction of a species and a loss of genetic diversity. In turn, the populations are less resistant to disease and less able to adapt to changes in their environment.
- Traditional ecological knowledge takes the form of stories, songs, cultural beliefs, rituals, community laws, and practices related to agriculture, forests, and ocean resources. It reflects the knowledge about local climate and resources, basic and aquatic characteristics, and animal and plant cycles.

Applying Knowledge Effects of human activities on ecosystems Page 47

HUMAN ACTIVITY	EFFECTS ON ECOSYSTEMS
Deforestation	<ul style="list-style-type: none"> Reduction in number of plants and animals living in an ecosystem Exposure to toxic or pest insects Soil erosion Loss of habitat for many species
Agricultural practices, such as burning fields, have long-term effects on ecosystems	<ul style="list-style-type: none"> Soil erosion Loss of habitat for many species Exposure to toxic or pest insects Soil erosion Loss of habitat for many species

HUMAN ACTIVITY	EFFECTS ON ECOSYSTEMS
Extraction of mining resources	<ul style="list-style-type: none"> Contamination of ground water and surface water through production of chemicals, toxics, metals, or micro-organisms Exposure to toxic or pest insects Soil erosion Loss of habitat for many species
Overpopulation of natural resources, such as fish	<ul style="list-style-type: none"> Reduction in production of natural fish Loss of genetic diversity in food web Ecosystems less resistant to disease and changes in environment

Analyzing Information Sustainability Page 48

SCIENCE OF LIFE/ EARTH	EFFECTS ON ECOSYSTEMS	DETERMINED APPROACH/ SOLUTION
<ul style="list-style-type: none"> Extraction of minerals Production of pollutants Exposure to toxic or pest insects Soil erosion Loss of habitat for many species 	<ul style="list-style-type: none"> Contamination of ground water and surface water through production of chemicals, toxics, metals, or micro-organisms Exposure to toxic or pest insects Soil erosion Loss of habitat for many species 	<ul style="list-style-type: none"> Resource management Conservation Restoration Reforestation Soil conservation Water conservation Waste management Recycling Energy conservation Green building Green transportation Green agriculture Green industry Green education Green government Green consumerism

Assessment How humans influence ecosystems Page 49

1. B 2. D 3. G 4. E 5. F 6. A 7. C 8. C 9. D 10. A 11. B

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