

Name: _____ Date: _____

Environmental Problems

Directions: Read pages 554 – 559 and complete the notes below.

Environmental Problems

_____ is an unwanted change in the environment caused by substances, such as wastes, or forms of energy, such as radiation. Anything that causes pollution is called a _____.

What are 5 types of pollution?

What is hazardous waste?

Resource Depletion

A _____ natural resource that can be replaced at the same rate at which the resource is used.

A _____ resource is one that **cannot** be replaced or that can be replaced only over thousands or millions of years; a resource that forms at a rate that is much slower than the rate at which it is consumed.

Exotic Species (Invasive Species)

An organism that makes a home for itself in a new place outside its native home is an _____. Exotic species often thrive in new places. One reason is that they are free from _____.

Exotic species can become _____ and compete with native species.

Human Population Growth

What has made human growth possible?

_____ happens when the number of individuals becomes so large that the individuals can't get the resources they need to survive.

Habitat Destruction

When land is cleared to make way for construction, crops, mines or lumber, _____ may erode. _____ may pollute nearby _____ and _____. The organisms that were living in these areas may be left without food and shelter. These organisms may _____.

An organism's _____ is where it lives. Every habitat has its own number and variety of organisms. _____ is the number and variety of organisms in a given area during a specific period of time. If a habitat is destroyed, biodiversity is _____.

Forest Habitats

_____ is the clearing of forest lands.

Marine Habitats

_____ pollution is pollution that comes from one source. Spilled oil pollutes both open waters and coastal habitats.

_____ pollution is pollution that comes from many different sources. An example of this would be when _____ on land are washed into river, lakes, and oceans.

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Environmental Solutions

Directions: Read pages 560 – 567 in your textbook to complete the notes below.

Conservation

Conservation is the _____ and wise use of natural resources. Practicing conservation means using _____ natural resources. Conservation helps _____ waste and _____. Also, conservation can help prevent _____ destruction.

The Three R's

REDUCE

Reducing Waste and Pollution

As much as 1/3 of the waste produced by some countries is _____ material. Products can be wrapped in less paper and plastic to _____ waste. Instead of using large plastic containers, sandwiches are now usually wrapped in thin paper instead. This paper is more _____. Something that is _____ can be broken down by living organisms such as bacteria.

Reducing the Use of Nonrenewable Resources

Some scientists are looking for sources of energy that can replace _____. For example, _____ can be used to power homes. Scientists are also studying power sources such as _____, _____, and falling _____. Car companies have developed electric and hydrogen-fueled automobiles. Driving these cars use fewer _____ and produces less pollution than driving _____-fueled cars does.

REUSE

Every time you _____ a plastic bag, one fewer bag needs to be made. _____ the plastic bag at the grocery store is just one way to reuse the bag. Reusing products is an important way to conserve resources.

You might be surprised at how many materials can be reused. For example, building materials can be _____. Wood, bricks, and tiles can be used in new structures.

Reusing Water

About _____ billion liters of water are used each day in American homes. Most of this water goes down the drain. Many communities are experiencing water _____.

One way to reclaim water is to use _____ to clean the water. These organisms include _____, and filter-feeding animals, such as _____. Often _____ water isn't pure enough to drink. But it can be used to water _____, _____ and golf courses. Sometimes, reclaimed water is returned to the _____ water supplies.

RECYCLE

Another example of reuse is _____. _____ is the recovery of _____ from waste. Sometimes, items such as paper, are used to make the same kinds of products. Other recyclable items are made into different products. For example, yard clippings can be recycled into a natural _____.

Recycling Trash

_____, _____, _____, _____, _____, and _____ are examples of materials that can be recycled. Every week, about half a million trees are used to make Sunday _____. Recycling newspapers could save _____ of _____.

Recycling Resources

Waste that can be burned can also be used to _____ electricity. Electricity is generated in _____ plants. Using _____ to make electricity is an example of _____. Some companies are beginning to make electricity with their own waste. Doing so saves companies money and _____.

Maintaining Biodiversity

Why is biodiversity important? (pg. 564)

What are two ways to maintain biodiversity?