Recycling

______ is the process of collecting, processing and reusing waste materials.

Out of the list of items below, which one cannot be recycled?

- a. plastic bottle
- b. soda can
- c. glass bottle
- d. none of these answers are correct

Recycled paper can be made into...

- a. paper towels
- b. notebook paper
- c. kitty litter
- d. all of these answers are correct

Recycling 1 ton of paper saves...

- a. 17 mature trees
- b. 7,000 gallons of water
- c. 3 cubic yards of landfill space
- d. 2 barrels of oil
- e. 4,100 kilowatt-hours of electricity
- f. All of these answers are correct



True or False. Recycling one aluminum can saves enough energy to keep a TV on for 2 hours.

True or False. The amount of plastic produced each year is enough to cover the state of Texas.



A type of waste that can be broken down by living organisms is:

- a. biodegradable
- b. recycled
- c. toxic
- d. smelly

Which of these items are biodegradable?

- a. Styrofoam
- b. banana peel
- c. plastic
- d. none of these answers are correct

Air Pollution

Which one of these is a greenhouse gas?

- a. Oxygen
- b. Nitrogen
- c. Carbon dioxide
- d. Helium

What is the "2nd greenhouse gas"?

- a. methane
- b. sulfur
- c. carbon dioxide
- d. oxygen



When gases such as carbon dioxide and methane build up in the Earth's atmosphere they trap heat and prevent that heat from being radiated back into space. This is known as:

- a. The Greenhouse effect
- b. Global cooling
- c. The Radiation effect
- d. Heat buildup

What is happening to Earth as more and more carbon dioxide is being released into the atmosphere?

- a. Earth is cooling
- b. Earth is warming
- c. Earth is spinning faster
- d. None of these answers are correct

What can be done to help prevent too much carbon from building up in the Earth's atmosphere?

- a. plant trees to make more forests
- b. take public transportation or ride a bike instead of driving a car
- c. use solar or wind energy instead of burning fossil fuels for energy
- d. all of the above answers are correct

Fill in the blank.

What is the layer of the atmosphere that protects Earth from dangerous UV rays called?

_____ rain is formed when pollutants in the air like sulfur oxides react with the water in the atmosphere and causes damage to plants and animals?

True or false. Air pollutants can cause health problems in humans like cancer and lung damage.

What is the leading cause of industrial air pollution in the United States?

- a. forest fires
- b. cars
- c. electricity production
- d. humans

Water and Pollution.

True or false. Taking a bath uses less water than taking a 5 minute shower.

What percent of the total water on Earth is available for us to use as freshwater?

- a. 10%
- **b.** 72%
- c. 3%
- d. 1%

How much water do Americans use each day on average?

- a. 5 gallons
- b. 50 gallons
- c. 100 gallons
- d. 1000 gallons



- a. 1000 gallons
- b. 3000 gallons
- c. 300 gallons
- d. 30 gallons



Freshwater pollution is due to which of the following?

- a. runoff from farms
- b. sewage from houses
- c. industrial waste
- d. all of these answers are correct

Where does most of our drinking water come from?

- a. rivers
- b. lakes
- c. groundwater aquifers
- d. oceans

True or False. Groundwater contamination is becoming a major issue, which is putting humans at a dangerous health risk.

Which element listed below can cause major health problems in humans and animals and is consumed by eating fish like salmon and tuna?

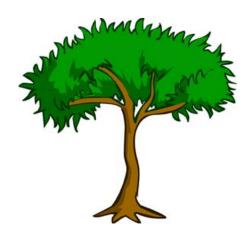
- a. mercury
- b. lead
- c. tin
- d. copper



Plants and Animals

What is a byproduct of photosynthesis?

- a. oxygen
- b. light
- c. carbon dioxide
- d. methane



Why are plants important for life on Earth?

- a. they produce carbon dioxide which is vital for life on earth
- b. they produce oxygen which is vital for life on earth
- c. they absorb water
- d. they make the environment look nice

What is the natural environment of a living organism called?

- a. atmosphere
- b. habitat
- c. environment
- d. biosphere

An area of the environment where there are interactions between all the plants and animals and their physical environment such as wind, water, sunlight, etc. is called?

- a. ecosystem
- b. habitat
- c. land
- d. biosphere

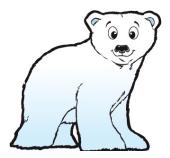
An example of an ecosystem would be...

- a. a lake and all the animals and plants the live in the lake
- b. a forest and all of the animals and plants that live in the forest
- c. a puddle of water and all the bacteria and small organism that live there
- d. all of these answers are correct

True or False. If one part of an ecosystem is removed, like the extinction of one animal species or the cutting down of trees, the ecosystem might break down and all of the other parts of the ecosystem like plants and other animals will suffer.

Which fish species listed below is close to extinction in the state of Maryland?

- a. Atlantic Croaker
- b. Maryland Darter
- c. Rainbow Trout
- d. Bluefish



True or False. Polar bears could go extinct by 2050 because their habitat is disappearing due to global warming. The melting of ice and snow reduces the polar bear's habitat and food supply (seals), which makes it difficult for the polar bears to survive.

Energy

Fill in the blank. Most of our energy comes from the burning of

Why is burning fossil fuels not good?

- a. It releases carbon dioxide into the atmosphere and causes global warming
- b. It uses resources that will run out eventually
- c. It is an expensive source of energy
- d. All of these answers are correct

Which of these are fossil fuels?

- a. petroleum
- b. natural gas
- c. coal
- d. all of these answers are correct



What is renewable energy?

- a. Energy generated by natural resources such as the sun, wind, water, biofuels and geothermal heat, and can be naturally replenished.
- b. Energy that is generated by fossil fuels such as petroleum, natural gas, and coal.
- c. Energy that has a limited supply.
- d. None of the above are correct.

Which is not a renewable source of energy?

- a. petroleum
- b. water
- c. sun
- d. wind



True or false. Water can be used to produce electricity.

What is a biofuel?

- a. a fuel that cannot be used by humans
- b. an environmentally friendly fuel that is made from biomass, such as animal fats, vegetable oils, and even algae
- c. a fuel that is made from the remains of plants and tiny animals that lived millions of years ago
- d. a fuel that is bad for the environment

Which of the following uses the most energy in a typical American home?

- a. heating water
- b. electricity
- c. heat and air conditioning
- d. refrigerators

What can YOU do to save energy and be more friendly to the environment?

- a. use solar energy in your home by putting solar panels on the roof of your home
- b. dry your clothes on a clothes line instead of using a drying machine
- c. turn off lights in rooms that you are not using
- d. all of these answers are good ways to save energy and the environment!

Sources:

Environmental Protection Agency- www.epa.gov
Recycling factsheet- http://www.oberlin.edu/recycle/facts.html
U.S. Fish and Wildlife Service- www.fws.gov