



# Grade 5

## Environment Project

### Term 4



Everywhere we look we can see problems in the way we treat the environment. From throwing trash on the ground to big industry polluting rivers and streams.

We can all agree that we need to do better!

**How can you make a difference ?**

Name: \_\_\_\_\_

Class: \_\_\_\_\_



# Table of Contents

Environmental Problems in the World	4
Why do we need to help?	5
Water Pollution	6
Project Introduction	8
Project Options	9
Timeline	10
Project Notes	13
Presentation Techniques	14
Speech Writing	15
Vocabulary	16
Sources	18
Presentation Notes	19





**It's quite clear that we all have a choice for the future. We can make changes to the way we treat our environment, or we can have problems down the road in the future. Every day people throw out their garbage or use materials that were built in a big factory that affects the environment around it.**

**The question is, what can we do about it? How can we help? In the box below brainstorm some ideas with your teacher and classmates.**

A large, empty, rounded rectangular box with a green border, intended for brainstorming ideas.



# Environmental Problems

From water pollution to global warming, environmental issues affect every person, animal, community, and nation on the planet. As increasing evidence supports the devastating effect humans have on the environment, more people are taking steps to protect the environment and educate others about environmental problems by looking at the top environmental concerns.

## Top 5 Public Concerns

According to a series of polls conducted between 1997 and 2008, people are most concerned about the following five environmental issues:

- 1. Contamination of Drinking Water:** Contamination of fresh water used for household needs, including pollution of oceans, rivers, lakes, and reservoirs, worries many people the most. More than half of people in the poll said they worry about the safety of their drinking water very much.
- 2. Water Pollution:** Many people also worry about water pollution and similar problems. More than half of the people who voted in the 2008 poll were concerned. Related problems include acid rain, ocean dumping, **urban runoff**, oil spills, **ocean acidification**, and **wastewater**.
- 3. Soil Contamination:** Another problem is oil **erosion**, soil **conservation**, soil **salination**, and soil contamination by waste, **pesticides**, and lead.
- 4. Wildlife Conservation:** Many people expressed concern about wildlife conservation and connected environmental issues, such as **endangered** species, animal and plant **extinction**, coral bleaching, **poaching**, and loss of natural animal habitats that create breaks in the food chain and other problems.
- 5. Air pollution:** Concerns over air pollution has been a big topic for more than 10 years. A lot of people are worried about indoor and outdoor air quality, carbon **emissions**, tropospheric **ozone** and other topics.

acidification    conservation    endangered    extinction    erosion    pesticides    wastewater  
poaching    poll    emissions    runoff    ozone

1. The food company's \_\_\_\_\_ showed that most people like ketchup better than mustard.
2. Heavy rains cause \_\_\_\_\_ of the river bank.
3. Many farmers use many \_\_\_\_\_ on their plants to keep away insects.
4. Water \_\_\_\_\_ is important for people's health.
5. Coal-burning factories release particles that lead to \_\_\_\_\_ of rain water.
6. The water people use for washing and flushing their toilets is called \_\_\_\_\_ .
7. He was \_\_\_\_\_ in the forest and got caught by the wildlife protection police.
8. Some of the country's biggest canyons have been caused by water \_\_\_\_\_ .
9. Many governments create laws to protect \_\_\_\_\_ animals like the white-headed duck many other birds in Turkey.
10. Some animals and plants go into \_\_\_\_\_ when they have all died and we no longer have them.
11. Every vehicle on the road creates \_\_\_\_\_ which dirty the air that we breathe.
12. \_\_\_\_\_ is a gas which is in our atmosphere, it protects us from dangerous ultraviolet light from the sun.



# Why should we help the environment?

You could go days without food and hours without water, but you would last only a few minutes without air. On average, each of us breathes over 3,000 gallons of air each day and drinks 1-3 liters of water per day. You must have air, water, and food to live. However, did you know that breathing polluted air or drinking dirty water can make you sick? Isn't that a good enough reason to start thinking about the environment?

**Write 3 reasons why you think we should pay attention to our environment.**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**What are some ways that people try to help with these problems?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

# Causes of Water Pollution



A. SCAN the text and UNDERLINE the words below.

precious	unsafe	organism	sewage	fertilizers	
pesticides	waterways	wastewater	poisonous	temperature	disposed
litter	garbage	shorelines	marine life	oil spills	

All living things need water to stay alive, which is why water is our most precious natural resource. For this reason, it is important to learn about the causes of water pollution.

Water pollution is simply any harmful thing that is added to water. There are many causes of water pollution, but you cannot always see what is polluting it. Water can look clear, yet still be unsafe. It can be polluted by microscopic organisms, which are so tiny, they can only be seen with a microscope. These organisms are sometimes contagious and can make us sick. One cause of microscopic organisms in water is sewage from pipes.

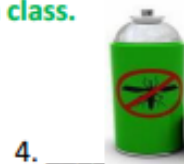
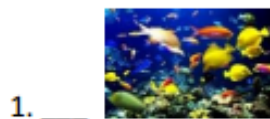
Another major cause of water pollution is the fertilizers farmers use to make their crops grow fast and the pesticides they use to kill bugs and rodents. When it rains, these fertilizers and pesticides can wash off into waterways.

In addition, wastewater from factories contains harmful chemicals that can be poisonous to marine life. This wastewater is also very hot, and when it is pumped into waterways, it has the effect of heating up the temperature of the water. Many plants and animals cannot survive if the temperature of the water rises due to lack of oxygen.

Litter also pollutes waterways. When not disposed of properly, garbage shows up on the shorelines of beaches and can also be harmful to marine animals. Moreover, anything with a sharp edge can cut a mammal or fish. Marine animals are also known to mistake garbage for food.

Petroleum companies ship their oil all over the world in large super tankers, but accidents do happen. An important cause of water pollution and a great loss of marine life along shorelines is accidental oil spills by these large super tankers.

B. Try to match the words to the images. Check and discuss as a class.

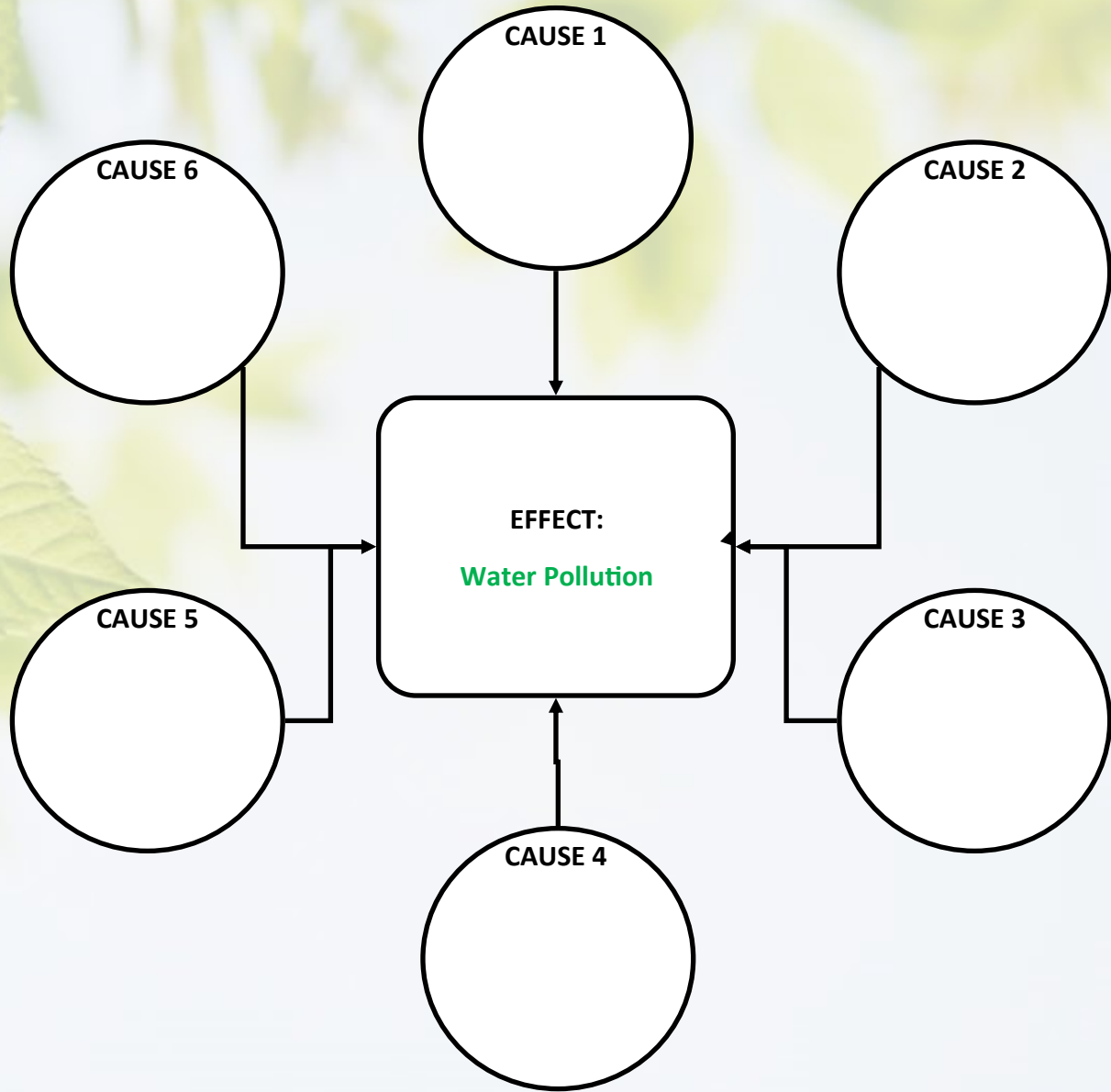


- a. oil spills
- b. marine life
- c. disposed
- d. litter/garbage

- e. fertilizers
- f. pesticide
- g. shorelines
- h. sewage / wastewater

C. Now, It's time to listen to the text and complete the NOTE-TAKING chart below.

<http://thinkonline.smarttutor.com/story-time-water-pollution-cause-and-effect/>



Check with your classmates to see if you found them all!



# Project Introduction

Our environment project is all about opening our minds and thinking about how we change the environment around us. What we want to do is create a road to a better future and we want you to pave that road.

On the next page you will see two sections labeled **A: Raising Awareness** and **B: Social Services**.

You and your group will choose one project from either section and you will research, act, and illustrate what we can do by working together.

## Project Objectives

Effective Communication  
Effective Communication

Realizing own role in group and taking it serious  
Effective Presentation Skills

Critical Thinking Skills  
Critical Thinking Skills  
Critical Thinking Skills  
Critical Thinking Skills  
Critical Thinking Skills  
Critical Thinking Skills

Research information from proper sources to make informed decisions  
Defending own opinion with supporting data  
Ability to make a choice and support one's choices with reasons  
Ability to find the big picture from bits of information  
Ability to evaluate according to given criteria  
Explain one's own viewpoint with supporting examples

Speaking and Listening  
Speaking and Listening

Listen for the purpose of note taking  
Pay close attention in discussion to what others say, asking and answering questions to introduce new ideas



## A: Raising Awareness

- 1) Interview a teacher:** During a morning chat you can set up a time with a teacher to conduct a discussion or have an interview on the environment. Go with your questions & make sure you take notes. Take pictures and prepare a poster about this discussion.
- 2) Presentation of an environmental problem & solution:** You may use PowerPoint, iMovie, stop motion, PowToon, Prezi or a poster to get your ideas across. Explain the problem and show ways to solve it in your presentation. You may want to show the problem with simple experiments too.
- 3) Song / Poem / Drama Performance:** Come up with a song/poem/a short drama performance to explain ways to save the environment. Be creative and inspirational. You may reflect the lyrics of the song/poem on the screen during your presentation.
- 4) Açı school waste research:** Research how many pencils, erasers, board markers are used yearly at Açı. Come up with ways to reduce the use of paper being used at the school, gather information from the cafeteria on how much food is wasted per day (amount of water used to clean dishes, etc. / contact our Eco school team & Açı Facilities Manager for additional help) Put your findings and ideas in a PowerPoint or other presentation.

## B: Social Services

- 1) Forest clean up:** In your own time, you may choose to organize a clean up day with your friends/family. You may choose to go to a forest or park and take **before** and **after** pictures of the area. Later on you will need to prepare a poster/ppt/video to show us; \*what the problem was \*why you did this \*what the results were.
- 2) Planting trees:** Research for a place to find the best area to plant a tree. Organize a day to plant trees with your family/friends. You will need to document this through photos and a small presentation on why you choose a particular type of tree.
- 3) Fundraising:** Come up with ways to raise money for environmental awareness. You may want to organize a bake sale/secondhand market in your own neighborhood. Set your goal and once you reach it, find an environmental organization and donate the proceeds. You should have pictures of the event and a small paragraph written to the organization explaining why you are donating and what you have learned in this project.

# Project Timeline

Week 28 - Meeting the Environment

Week 29 - Water Pollution

Week 32 - Getting into groups

Choosing your Projects

Research

Week 34 - Speech/Presentation Writing

Week 35 - Presentations

## My Group

Name: \_\_\_\_\_

Team Member 1: \_\_\_\_\_

Team Member 2: \_\_\_\_\_

Team Member 3: \_\_\_\_\_

Team Member 4: \_\_\_\_\_

Which Project did we choose? \_\_\_\_\_

## Planning

What is our topic? \_\_\_\_\_

Why did we choose this topic? \_\_\_\_\_

\_\_\_\_\_

How can we present it? \_\_\_\_\_

\_\_\_\_\_

## Team Member Duties:

Each team member must have a role, you must choose for yourself which responsibility everyone will take in order to work together and present your project successfully.

Name: \_\_\_\_\_ Role: \_\_\_\_\_

Name: \_\_\_\_\_ Role: \_\_\_\_\_

Name: \_\_\_\_\_ Role: \_\_\_\_\_

Name: \_\_\_\_\_ Role: \_\_\_\_\_

To do list: 1 - \_\_\_\_\_

2 - \_\_\_\_\_

3 - \_\_\_\_\_

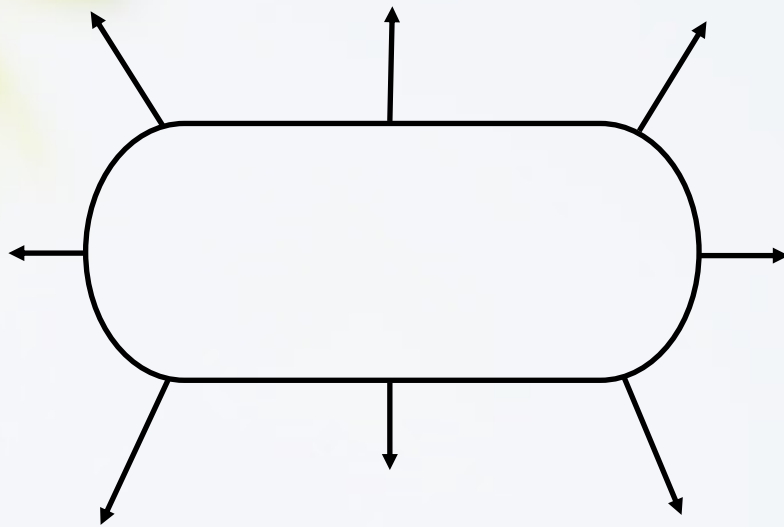
4 - \_\_\_\_\_

5 - \_\_\_\_\_

6 - \_\_\_\_\_

## Mind Map

In the center of the map, write your project name. Around the outside of the map write down your ideas and parts of your project that you want to work on and show in your presentation so that you can remind yourself and stay on topic.





## Presentation Techniques

Below you will find a list of techniques that you should think about when you are writing your speech and when you are presenting your project. Keep checking them as you work on your project to remind yourself.

1. Allow plenty of time for preparation.
2. Answer the all-important question-words: why? who? where? when? how? and what?
3. Include an introduction, body, conclusion and questions.
4. Write notes based on important words.
5. Practice your presentation several times and change it as necessary.
6. Select the right presentation style.
7. Use your time effectively.
8. Make use of clear, powerful visual materials to make it interesting.
9. Use clear, simple language, avoiding slang.
10. Use concrete facts, don't say "I think" or "maybe".
11. Explain what you will talk about at the beginning so that your listeners know what to expect.
12. Don't get nervous, relax and do your best.
13. Be aware of your body language.
14. Maintain interest by varying the speed, volume and pitch of your voice.
15. Answer your listeners' questions politely.
16. Respond to your audience positively.

Check the QR code for an example of good and bad presentations!



# Speech Writing

Who is your audience? \_\_\_\_\_

What is your Topic? \_\_\_\_\_

Where is your speech going to be? \_\_\_\_\_

Introduction:

---

---

---

Body:

---

---

---

---

---

---

---

---

---

---

---

---

Conclusion:

---

---

---

### Checklist

- |   |          |
|---|----------|
| Did I explain my idea clearly?                      | Yes / No |
| Did I tell the audience what they needed to know?   | Yes / No |
| Did I make my audience think about the environment? | Yes / No |

# Vocabulary

1. the gases that are in the space around the earth and other similar objects in outer space

- a. atmosphere
- b. wastewater
- c. contaminate
- d. sewage

2. the usual weather conditions in a place

- a. climate
- b. contamination
- c. global warming
- d. preservation

3. to ruin, infect, or make dirty by touching or adding something harmful

- a. contaminate
- b. sewage
- c. wastewater
- d. renew

4. the act of making dirty.

- a. contamination
- b. renewable
- c. preservation
- d. pollution

5. an increase in the world's temperatures, which many scientists believe is caused in part by pollution of the atmosphere

- a. global warming
- b. atmosphere
- c. sewage
- d. renewable

6. poisons, waste, or other materials that cause harm to the environment

- a. pollution
- b. renewable
- c. climate
- d. wastewater

7. protecting something from loss or damage

- a. preservation
- b. wastewater
- c. contamination
- d. recycle

8. to put used things through a process that allows them to be used again

- a. recycle
- b. atmosphere
- c. global warming
- d. climate

9. to make like new; restore

- a. renew
- b. renewable
- c. global warming
- d. pollution

10. able to be revived, regenerated, or restored to an original state or condition

- a. renewable
- b. global warming
- c. contamination
- d. climate

11. water and waste material that is carried away in sewers

- a. sewage
- b. contaminate
- c. global warming
- d. pollution

12. water that has been used for some purpose by humans, such as in industry or for sanitation, and contains any of various types of contaminants

- a. wastewater
- b. atmosphere
- c. preservation
- d. recycle

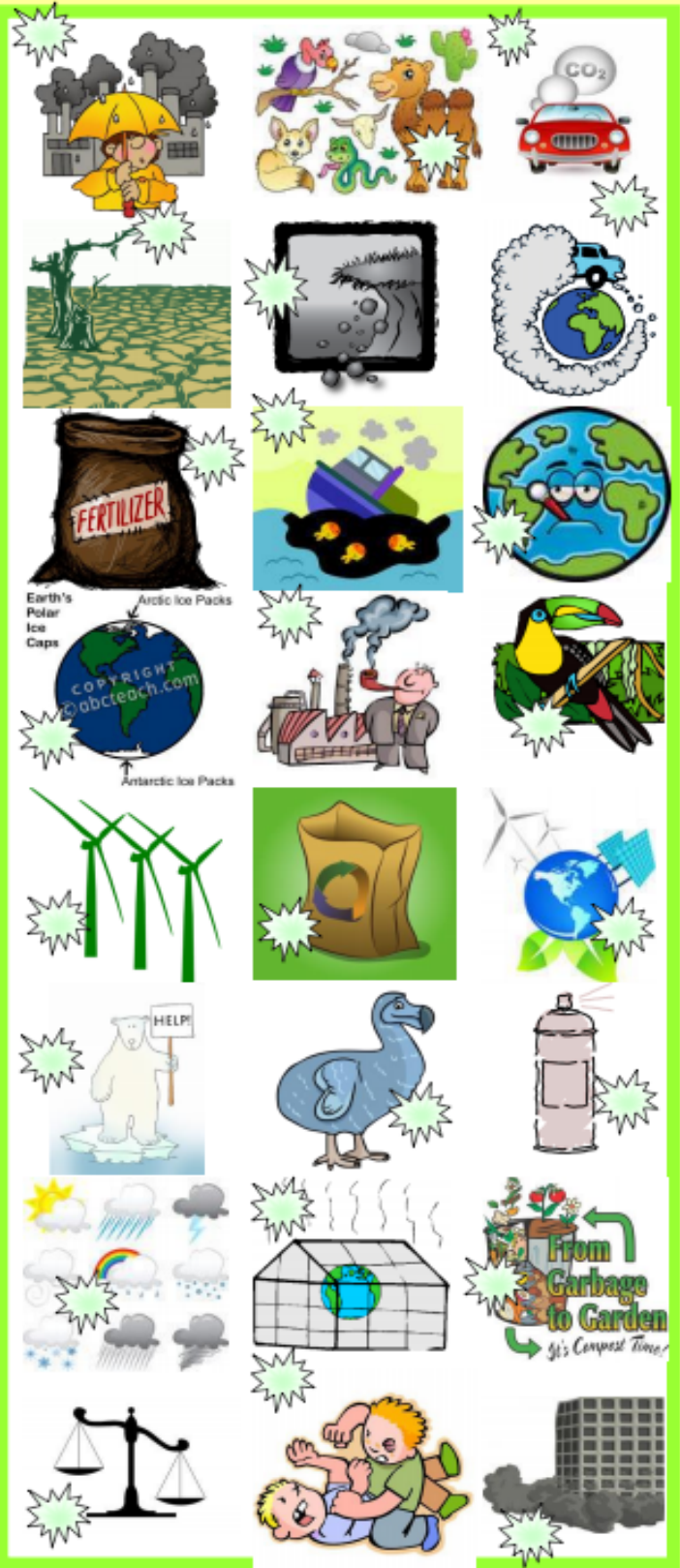


# Destroy vs Preserve the Environment!

- 1-oil slicks 2-global warming 3-polar ice caps 4-pollution 5-rainforests 6-reusable  
 7-renewable 8-endangered 9-extinct 10-aerosol 11-climate 12-greenhouse effect  
 13-biodegradable 14-balance 15-combat 16-destruction 17-acid rain 18-biodiversity  
 19-drought 20-erosion 21-exhaust fumes 22-fertilizers 23-wind energy 24-carbon dioxide

Match the words with the pictures. Then complete the sentences with the most suitable word.

- ..... is very harmful to the environment.
- Air ..... is a problem for all of us.
- An ..... is contained in a spray can.
- ..... continues to decline each year all over the world.
- CO<sub>2</sub> has a lot to do with the so-called .....
- ..... are chemicals given to plants with the intention of promoting growth.
- If the .....melt, the ocean levels will rise.
- Large .....were found near the coast.
- Sunlight is a ..... resource because we can use it to generate electricity without using it up.
- The air get polluted with the .....of thousands of cars.
- The ..... of nature is very fragile.
- The ..... did severe damage to the harvest and was followed by famine.
- The laws to ..... air pollution should be stricter.
- The Mediterranean ..... is good for growing citrus fruits.
- The population of some ..... animals is declining dramatically.
- The use of renewable sources could stop the ..... of the rainforests.
- There are two kinds of plastic bottles: ..... bottles and single-service bottles.
- They started a campaign to slow down the process of .....
- Trees give off oxygen and absorb .....
- Tropical ..... are the Earth's oldest living ecosystems.
- Unless whales are protected, they will become .....
- We only use detergent and dishwashing liquid that is ..... so that we don't add to the pollution in the water supply.
- Wind and water are the main agents of soil .....
- .....comes out of a turbine and is turned into electrical energy.



## References

<http://combiboilersleeds.com/image.php?pic=/images/environment/environment-8.jpg>

<http://3n9zr13eqsdp2ay3vm3xz2c7.wpengine.netdna-cdn.com/wp-content/uploads/2013/05/reduce-reuse-recycle-10-tips.jpg>

[http://1.bp.blogspot.com/-ZshEorlAhuk/T\\_-GGKxhrl/AAAAAAAAABY/wSOrH0vNrDs/s1600/Recycle+Logo.png](http://1.bp.blogspot.com/-ZshEorlAhuk/T_-GGKxhrl/AAAAAAAAABY/wSOrH0vNrDs/s1600/Recycle+Logo.png)

<http://www.holidaybug.co.za/wp-content/uploads/2014/07/that-you-could-do-to-save-your-environment-make-a-difference-your-588x400.jpg>

<http://www.parklandprimary.co.uk/wp-content/uploads/2012/09/eco-schools1.jpg>

[http://followgreenliving.com/wp-content/uploads/2015/01/modern\\_environment\\_by\\_mozilla\\_111-d5cgv3z.jpg](http://followgreenliving.com/wp-content/uploads/2015/01/modern_environment_by_mozilla_111-d5cgv3z.jpg)

<http://thelibertarianrepublic.com/wp-content/uploads/2015/04/green-environment.jpg>

<http://stylehack.com/wp-content/uploads/2016/06/environment.jpg>

[https://www.mhi-global.com/products/images/bg\\_07\\_environment.jpg](https://www.mhi-global.com/products/images/bg_07_environment.jpg)

[https://pbs.twimg.com/profile\\_images/702059163287998464/DQn6-drL.png](https://pbs.twimg.com/profile_images/702059163287998464/DQn6-drL.png)

[https://d3n8a8pro7vhmx.cloudfront.net/auscon/sites/3/favicon\\_images/original/favicon.ico?1466036896](https://d3n8a8pro7vhmx.cloudfront.net/auscon/sites/3/favicon_images/original/favicon.ico?1466036896)

[http://www.ducksters.com/science/environment/water\\_pollution\\_sign.jpg](http://www.ducksters.com/science/environment/water_pollution_sign.jpg)

[https://umweltverschmutzung.files.wordpress.com/2011/06/trinkwasser\\_dw\\_wiss\\_278755p.jpg](https://umweltverschmutzung.files.wordpress.com/2011/06/trinkwasser_dw_wiss_278755p.jpg)

<https://userscontent2.emaze.com/images/31a58e86-829e-426e-80e2-8ed152d885bf/3f81e6d868f21c8f7efd657ac08208be.jpg>

<https://image.slidesharecdn.com/environmentposters-091125014330-phpapp01/95/toms-tefl-help-save-the-environment-posters-1-728.jpg?cb=1259284219>

[http://www.environment.tn.nic.in/photo\\_gallery/tips.jpg \\*](http://www.environment.tn.nic.in/photo_gallery/tips.jpg)

<https://s-media-cache-ak0.pinimg.com/originals/73/d3/5b/73d35bfe4b19bf6c9d37b1db0be2e6f1.jpg>

[http://www.servicespace.org/inc/ckfinder/userfiles/images/dgood/essay\\_michael\\_stone\\_so\\_much\\_magic\\_water\\_cycle.jpg](http://www.servicespace.org/inc/ckfinder/userfiles/images/dgood/essay_michael_stone_so_much_magic_water_cycle.jpg)

<https://s-media-cache-ak0.pinimg.com/736x/c3/66/15/c36615712199ea22dcd330982e69ae80.jpg>

[http://www.cinaforum.net/wp-content/uploads/2016/02/Wind\\_Jobs\\_Silhouette.jpeg](http://www.cinaforum.net/wp-content/uploads/2016/02/Wind_Jobs_Silhouette.jpeg)

### Text

<https://sites.google.com/a/s.dcsdk12.org/pollution-prevention/why-pollution-is-bad>

<http://www.tefl.net/esl-articles/esl-presentation-tips.htm>



