

Научно-исследовательская работа
Английский язык

« WATER POLLUTION ISSUES»

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Introduction

From the beginning to the end of human life is surrounded by water. Impossible imagine the activities of enterprises without the use of water, it is indispensable in everyday life. Water is the most valuable natural resource. Its role is participation in the process of metabolism of all substances, which are the basis of any life form. Everyone needs water people, animals, plants. For some, it is a habitat.

Hypothesis: I thought that you can draw people's attention to the problem water pollution if:

1. Never throw garbage around or leave it on bodies of water. Is always you need to take it with you.
- 2 It is necessary to abandon the use of plastic and polyethylene, because they take a long time to decompose and harm the lives of the inhabitants.
3. Make and distribute handouts to students.

Relevance: Currently, the problem of water pollution (rivers, lakes, seas) is the most relevant. The problem requires immediate resolution. By handing out reminders, we hope that people will change their attitude towards our heritage - nature. Looking at any river, lake, you especially well understand that in the fate of nature - Our destiny. A comprehensive science-based program is needed rehabilitation of rivers and lakes. Priority areas for become:

1. Complete cessation of the discharge of household waste and sewage into the river;
2. Cleaning the banks of rivers and lakes with subsequent creation on their banks sanitary zone.
3. Organization of ecological general education of children and the population.

Object of research: Water and sources of its pollution.

Subject of study: The ability to reduce water pollution.

Objective: to learn about the environmental problems of water pollution.

To achieve this goal, I define the following tasks:

- Familiarize yourself with the concept of water pollution and find out why it is dangerous

polluted water for a living organism.

- to find out the causes of water pollution by oil products, plastic waste, sewage from fields and farms, household waste, containing toxic substances, radioactive waste.

In the first chapter, “Water Pollution in Nature”, I covered the following questions: 1. What is water pollution? 2 What sources give us water pollution? 3 How to deal with water pollution?

For the second chapter: "Experimental and practical work" carried out: 1 Sociological survey among classmates (Appendix No. 1) in 31 students from our class took part in the survey. 2) I tried to draw the attention of high school students to the problem water pollution. After completing the research work, I confirmed my hypothesis about drawing people's attention to the problem of water pollution.

Chapter 1 Water pollution.

Water pollution is the introduction of various pollutants into rivers, lakes, underground waters. Occurs when directly or indirectly contaminants that enter the water in the absence of good treatment and removal of harmful substances.

In most cases, fresh water pollution remains invisible, because pollutants dissolve in water. But there are exceptions: foaming detergents, as well as floating on surfaces of oil products and untreated effluents.

However, the volume of natural pollutants is negligible in comparison with man-made. Every year, thousands of chemicals with unpredictable effects, many of which are new chemical compounds. In the water there may be found elevated concentrations of toxic heavy metals, petroleum products, surfactants, medicinal drugs and hormones that can also get into drinking water. As It is known that annually up to 12 million tons of oil enters the seas and oceans.

1.2 What sources give us water pollution?

1. Industrial, domestic wastewater. Not passed the cleaning system from chemical harmful substances, they, getting into the reservoir, provoke ecological catastrophe.
- 2 Acid rain. All industrial waste gases, exhaust cars, once in the atmosphere, return with rain back to the ground, reservoirs.
3. Organic pollution. Their natural decomposition (dying off plants, animals).
4. Industrial accidents.
5. Thermal, radiation pollution.
- 6 Mudflows, avalanches.

1.3 How to deal with water pollution?

- 1 Use as few chemicals as possible when cleaning your home.
- 2 Dispose of waste properly.
- 3 Save as much water as possible.
- 4 Try not to use plastic.

Conclusions on the 1st chapter:

Water is a necessary condition for life on earth. Water pollution various wastes hinder self-cleaning processes. Pollution water can have harmful effects on human health.

Chapter 2: Practical Research

2.1 Opinion poll

I conducted a survey among schoolchildren on the topic: "Water pollution in Saratov region".

The purpose of the survey: to identify students awareness of water pollution in nature.

The students were asked to answer the following questions:

- 1 Do you know what water pollution is?
- 2 Do you do something to keep the waters clean?
- 3 Do you think the reservoirs in the Saratov region are dirty?

Analysis of a sociological survey.

37 people took part in the survey. 100% of students know what is water pollution. 93% of respondents do something to maintain cleanliness in reservoirs, 7% - do nothing to maintain cleanliness in reservoirs. 85% - believe that the reservoirs in the Saratov region are dirty, 15% don't think so.

As a result of the survey, it turned out that most of the students are familiar with the concept of "Water pollution", have heard about the sources that pollute the waters and agree to keep the waters clean. It means, that we have a great chance to fix this problem and make it so that – would sources no longer pollute water bodies. To reduce the dumping of garbage and other things into water bodies for schoolchildren made notes.

I have created **Memo «Save water!» for students.**

III. Conclusion.

Summing up the results of our research, I can confidently say that the proposed hypothesis has been proven. All living things suffer from water pollution harmful to human life. Stop dumping garbage into waterways and wise use of water is indeed a huge contribution to saving our property and the substance necessary for life - water. I believe, that this problem on the part of our government should be given much more attention. It is necessary to carry out explanations in schools and among the population about the importance of water and, of course, it is necessary to conduct large-scale garbage collection campaigns on the banks of reservoirs, widely covering them in mass media.

We're schoolchildren a little bit in the fight problem with calling water. We offer smart use of water. Thus, we can save several thousand tons of water per year.

I presented my research to the class. Classmates supported us. I think that this work is probably for both children and adults in a new observational way on the use of water and the capture of a large amount of this resource.

IV. Bibliography

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- 2 <https://ru.wikihow.com/уменьшить-загрязнение-воды>

Appendix No.1

questions	yes	no
Do you know what water pollution is?		
Do you do something to keep the waters clean?		
Do you think the reservoirs in the Saratov region are dirty?		

Questionnaire

Appendix No.2

TAKE CARE OF THE WATER!
all living beings suffer from water pollution, it is harmful to human life. therefore, water, our main wealth, must be protected! to keep reservoirs clean, people should:



1) do not wash cars on the banks of rivers

2) do not throw garbage into reservoirs.

3) use water sparingly. It means:

a) do not leave the faucet open unnecessarily;

b) the faucet must be serviceable;

c) do not wash under a strong stream of water;

d) use water wisely. TOGETHER WE WILL SAVE WATER!

Memo “take care of the water!”