

Научно-исследовательская работа

Английский язык

## AIR POLLUTION IN OUR TOWN

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## **Introduction.**

Every year many people around the world get more and more concerned about the environment. The environmental pollution affects the life of plants, animals and humans. Humans improved the conditions for their existence throughout their inhabitancy. People didn't always think about the consequences of their activities on Earth. So our water, soil and air became very polluted. Air is one of the most important things for human existence. Air affects human health, its quality of life. What affects air pollution? What is the air condition in our town? Let's try to figure it out in our project.

**The purpose:** Determination of air pollution by snow research.

- Objectives:**
1. To give characteristic of different parts of the area;
  2. To compare parameters of acidity of various parts of the area;
  3. To define the presence of combinations of pollutants in snow;
  4. To formulate conclusions and recommendations to reduce air pollution.

## Basic and experiment part.

Pollution of snow has two stages. The first it is pollution of snow during its formation in clouds. Secondly, this is pollution of snow, falling to the ground. Transport is main cause of pollution. There are many kinds of transport in our town. Nowadays it is one of the most important problem.



We carried out learning of Moskovskaya and Zavodskaya Street on December 2019. The width of the streets is 6 metres and the length is 8 metres. The road is two-way. We made necessary measurements and tests of precipitations.

Then we learnt it detailed in the laboratory. We found that the most polluted area is highway. Also we learnt about acid snow. The highway has the highest amount of acid. (pH=3). A level degree of air pollution depends from intensity of movement.



## **Conclusion and recommendations.**

We found that the main cause of air pollution is transport after analyzing all facts of researching and learning literature. We have some recommendations to reduce air pollution:

1. To plant trees in cities and towns
2. To invent special filters for public transport
3. To control quantity of transport in the streets

Cars are the main polluters, so we think that people should not use as many cars as they do now. It is very important for everybody to understand that preserving the nature and helping the Earth to survive is our responsibility.



## Appendix.

Участок	m/ф	m/с	M	V/ф	P	Степень загрязнённости
ул. Заводская	700	750	50	200	0,25	низкая
ул. Московская	700	850	150	155	0,96	средняя
Трасса	700	1500	800	200	4	высокая

Наиболее загрязнённым участком является трасса, наиболее чистый-ул. Заводская.

Химические соединения	Трасса	ул. Заводская	ул. Московская	Пришкольный участок
SO <sub>4</sub>	интенсивно	мало	средне	нет
SO <sub>3</sub>	средне	нет	средне	нет
S	большой осадок	помутнение	средний осадок	нет
NH <sub>4</sub>	немного	немного	немного	немного
Фенол	нет	нет	нет	нет

<b>Трасса</b>	<b>ул. Московская</b>	<b>ул. Заводская</b>
3	5	6,5

Сильно кислая среда в районе трассы.