



BRAIN WAVE



NUMBER 6
(MAY 2017)

Around the World

Cadets clean up their home:



Let's travel around the world:



The Russian president has signed a decree making 2017 the Year of Ecology and especially protected natural territories of the Russian Federation.

In today's paper we'll discuss some interesting places in Russia and abroad. We'll also speak about some ecological problems.

What can we do to make the world cleaner? How can we protect it? Let's discuss!

Read in today's paper:
Our ecological researches:



The cleanest and the dirtiest cities:



Some ecological calendars for you:



We are young ecologists!!!

We all want to live in a clean and beautiful place. We like clean and beautiful cities. We want to save the nature around us. What can we do for this???

Cadets clean up their home!

Cadets and teachers of our school took part in a litter pick. It was on Friday, April 21. The weather was wonderful and we all were happy to spend some time outdoors. We cleaned up the territory of our school and some streets around it. 596 cadets and 230 teachers did the place we live in cleaner and more beautiful.

The territory was divided between courses. After that we took our rakes and packets and started our work. Cadets and teachers cut bushes, cleaned dry foliage, old branches and leaves. Cadets also cleaned up the territory of Klara Tsetkin and Tavricheskaya streets. We also took many pictures that day and had a lot of fun! I think such work is very important because each of us can do the world better! Next year we are going to do it again.

The material was prepared by **B. Tykhonov**



We are young researchers!

This year cadets took part in different ecological competitions and conferences. We won a lot of prizes. Today we have an interview with **Zaitov Marsel**. He took part in a regional ecological conference and became a winner.



- What was the topic of your work?
- Together with my classmates we created a travel guide «Natural areas of protection in Tyumen region». It was the topic of our work.
- Why is this topic interesting for you?
- There are many beautiful and unique places in our region. I want to tell people from all over the world about them.
- How can you do this?
- We created an interactive map in the internet. We did it both in Russian and in English.
- Do you like to take part in the conference?
- Of course! I met many interesting people and learnt a lot of useful information!
- Do you want to continue your work?
- Of course! I'm going to study natural areas of protection in other regions next year!
- It is very interesting! We wish you good luck! Thank you for the interview!
- Thankyou!

The material was prepared by **P. Mordasov**

Let's travel around the world!



There are so many different places in the world. Each country has a lot of cities and towns. Some of them are beautiful! People like to visit them. They are also happy to live there. But other cities are really awful! They are very dirty. It is very difficult for people to live there. Let's look at the rating of the cleanest and the dirtiest cities.

Top-5 of the dirtiest cities

5. New Delhi, India

Due to the city being so overcrowded, public urination and piles of garbage are not rare occasions on the streets.

4. Moscow, Russia

A lot of factories and cars have made air pollution a big problem for Moscow's residents and placed the Russian capital, the only European city in this list, among the dirtiest cities in the world.

3. Lome, Togo

Waste management has been one of the main causes of the area's health hazards. Without access to clean water, the city is fighting against water-borne infectious diseases.

2. Luanda, Angola

Most of the problems are caused by the dangerous water the residents drink.

1. Port Harcourt, Nigeria

Port Harcourt is the dirtiest city in the world. This city in Nigeria has one of the biggest issues with disease caused by water pollution and bad waste management. Many companies based in Port Harcourt dump their waste in the river Aba, which runs across southern Nigeria.



Top-5 of the cleanest cities

5. Freiburg, Germany

The German city Freiburg is also known as Flower city in the country popular. The greenest city of the world has numerous grass gardens, parks and other green projects to make the environment safe

4. Adelaide, Australia

The eighty five percent of waste in this city has been successfully recycled following well-organized system which is one of prime reason of dirt free surroundings.

3. Zurich, Switzerland

The people and government often involved in activities which made the city clean and fresh.

2. Luxemburg

There is absolute fine waste management which working is not only satisfactory but extraordinary making the city clean and providing a healthy atmosphere to residence.

1. Calgary, Canada

he government is keen to clean the environment by restricting people from such activities which may harm or pollute the region in any manner.



The material was prepared by **A. Krutikov**

Let's travel around Britain!

Our nature is always amazing! It creates many wonderful things. They are in different cities and in different countries. There are some of them in Great Britain too. Let's speak about them!

Giant's Causeway is one of the most wonderful places on our planet. It is located near the village of Bushes in the North-East coast of Ireland. It is a coast of the sea that consists of thousands of basalt columns. They have a regular hexagonal shape, reaching 12 m in height and 50 cm in diameter. They are located vertically and driven into the soil so tightly that they will not pass even a thin blade of a knife. If you look at this stretch of the coast from above, it looks like it is completely cobbled.



Loch Ness lake is situated in the Highlands of Scotland. Loch Ness is famous for its legendary monster Nessie; and that's where the name comes from Loch (lake) Ness (Nessie Monster). It stretches from Inverness in the north, flows all the way to Fort Augustus in the South through wild and rugged shoreline, and eastwards to Daviot. The place has a wide range of outdoor activities available right from cruises, climbing, Deer spotting, water sports, golf courses, pony riding to walking, cycling etc.



Hadrian's Wall is a Roman wall that runs for about 120 kilometres across northern England. In 122 AD it was the frontier defence of Roman Britain. It was hoped that the wall would help to control the Scottish tribes. Originally it's about 3m wide and 4.5m high. Nowadays the wall is in the Northumberland National Park around the village of Gilsland. One of the best preserved Roman forts can be seen at Housesteads (Roman Vercovicium), six miles (9.7 kms) north east of Haltwhistle.



Stonehenge, the most famous prehistoric monument in Britain, is situated on Salisbury Plain in the county of Wiltshire. At various times regarded as a site built by the Druids, the Romans, the Danes and even the French, the first stage - a circular ditch and bank with an entrance flanked by a pair of small standing stones - is believed to have been built around 3,000 BC.

It has been suggested that Stonehenge once operated as a massive astronomical clock, and there are even suggestions that it was a landing site for UFOs! A more likely explanation is that Stonehenge was an important centre of worship connected with the sun.



5 prachttvolle Natonalparks Deutschlands



Niedersächsisches
Wattenmeer



Sächsische Schweiz



Bayerischer Wald



Hainich



Schwarzwald

Andrej: Es gibt viele Nationalparks in Deutschland. Ich will den Nationalpark Niedersächsisches Wattenmeer besichtigen. Er liegt in Niedersachsen. Er zweitgrößte deutsche Nationalpark. Die Landschaften sind maleisch: Wattflächen, Sandbänke, Priele und Meer, Inseln mit Dünen und Strand, Salzwiesen, Geestkliffs, Moore, Heiden.



die Salzwiese



der Fischotter

Alexej: Ich finde den Bayerischen Wald schön. Er wurde am 7. Oktober 1970 eröffnet. Das ist der erste Nationalpark Deutschlands. Die Tierwelt ist bunt. Hier leben Fischotter, Auerhuhn, Weißrückenspecht, Rauhfuß- und Sperlingskauz, und zwischenzeitlich zurückgekehrt sind Luchs und Schwarzstorch.

Andrej: Sächsische Schweiz sieht wunderbar aus. Er liegt nicht weit von Dresden. Diese Felslandschaft möchte ich besuchen.



der Weißrückenspecht



der Luchs



der Schwarzstorch



der Sperlingskauz

Alexej:
Nationalpark
Hainich liegt in
Thüringen.

Man nennt es das grüne Herz Deutschlands. Hier wachsen Buchen und Eiche. Diese alte Bäume gelten als Symbol für den Nationalpark Hainich. Hier kann man spazieren gehen und sich erholen.

Andrej: Der Nationalpark Schwarzwald besuchen viele Touristen gern. Die Gäste können hier wandern, Rad fahren, Wintersport betreiben oder einfach nur in frischer Luft entspannen und beobachten. Und das finde ich super!

Vorbereitet von
A.Kondraschow
und
A. Werschinin.

we start to explore the world...

Our today's guests are cadets of the fifth course. They like to spend their free time outdoors. Today they want to tell about their holidays.

I went camping with my family last year. We found a beautiful place near the hill. There were lots of flowers and plants. In the morning I ran, jumped and walked there. I was happy and had a great time. We took lots of photos. In the afternoon I was very hungry, and we ate sandwiches with chicken and cheese. I drank a cup of tea under a big tree. It was a fantastic day!



Sarkeev Gleb 5 "G"

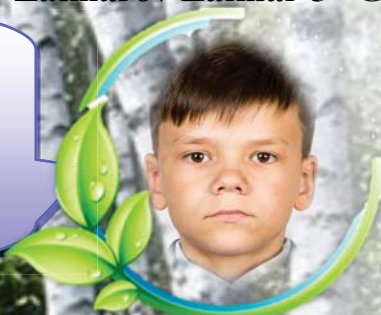
I went to the Moscow zoo. It was great! I saw wild animals. They were wonderful. They are not dangerous when they are in the cages. I saw a lot of types of animals at the zoo. They were tall and short, big and small, fat and thin. There was a bear. It was big and wild. He had brown fur, a black nose, big paws and sharp claws. As for me, I liked the zoo very much. People and animals must live together.



Zakharov Zakhar 5 "G"

I like going to the forest very much! My nose likes fresh air too. I enjoy picking up mushrooms in the forest. They are very delicious and useful. There is a tradition in my family to go to the forest in late summer or in autumn. We always have baskets full of mushrooms. My mum cooks special food with them at home. I love nature because it's wonderful.

Sigida Artyom 5 "G"



Last year I was in the forest with my family. I saw a lot of trees, birds and animals there. We picked lots of berries. They were strawberries, wild strawberries and raspberries. I went to the lake and swam with my father, then we went fishing. At night we slept in the open air. It was great! I love nature.

Semyonov Sasha 5 "D"



Last summer I and my family had chickens and geese at the country house. Small chickens ran in the yard and had a good time. Chickens were small, yellow and good but geese were big, white and unfriendly – they often bit and pinched chickens. My father built a special house for farm animals. In the evenings I and my brother ran after chickens. It was a great time!

Cherkashin Georgiy 5 'D'



When I was eleven years old, I and my mother went camping to the forest. We played different games there and had a great time. When we were hungry, we came into the tent and had lunch. We ate salad, some meat and drank orange juice. In the evening we packed our things and came back home. I enjoyed visiting the forest and was very happy.

Verbovoy Vladimir 5 "G"



“Me, myself and nature”

Hello! My name is Artyom. I want to tell you about my trip to the forest and lake. When I was a little boy, I often went to the forest to pick up mushrooms. I also went swimming and sunbathing together with my parents.

Once, my family and I went fishing. We went to the lake Andreevskoe. I caught some carps there. I was very happy. Later, I could not believe my eyes. I caught a large carp and a crawfish. My parents were excited and happy for me. I was surprised because I did not know there were crawfish in that lake.

Morozov Artyom 5G**“Nature and me”**

I like Russian nature very much. Famous Russian poets and writers described its beauty in their books. In summer, I like to walk in the forest, gather mushrooms and berries, ride a boat and go fishing. In autumn, I like to pick up colourful leaves. My favourite season is winter because I can go skiing in a snowy forest, skating and sledging. Spring is a very beautiful season because lilacs and first snowdrops are in blossom.

Grishin Egor 5G

I like going to the forest very much! My nose likes fresh air too. I enjoy picking up mushrooms in the forest. They are very delicious and useful. There is a tradition in my family to go to the forest in late summer or in autumn. We always have baskets full of mushrooms. My mum cooks special food with them at home. I love nature because it's wonderful.

Ryl'skikh Mikhail 5A

Ecology quiz

- 1) Which country doesn't have rainforests?
a) Spain b) Australia c) Brazil
- 2) Which animals have got smaller eyes in proportion to their bodies?
a) Ants b) Ants c) Elephants
- 3) How much water can a camel drink in ten minutes?
a) 19 liters b) Up to 112 liters c) 3 liters
- 4) How many hours a day does a koala sleep?
a) 8 hours b) 22 hours c) 1 hour
- 5) Which city is the most populated?
a) Mexico b) Tokyo c) Los Angeles
- 6) How many sea animals are killed every year by plastic bags and wastes in the ocean?
a) Up to one million b) None c) Some hundreds
- 7) In two hours a bamboo tree can grow almost:
a) 1.2 m b) 10 cm c) 10 cm

The material is prepared by cadets of the 5th course
and teachers Savinykh E.N., Sechenova A.E



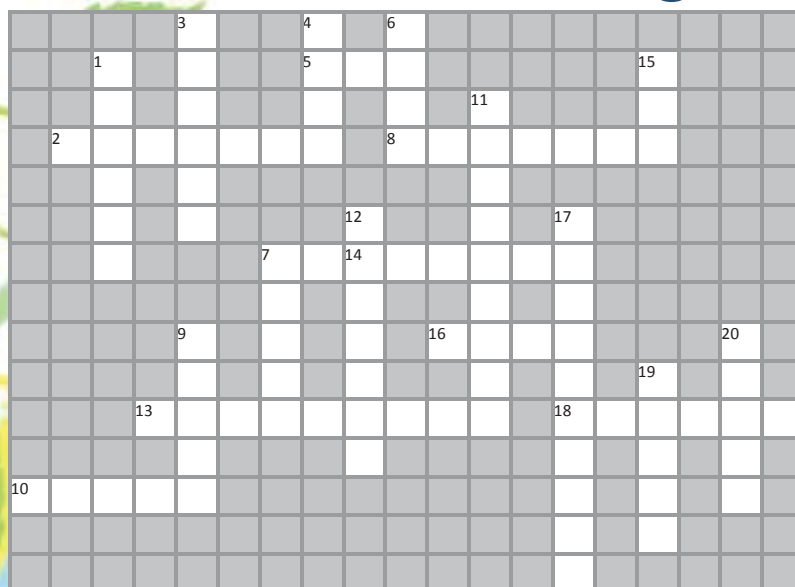
Across:

2. листва
5. воздух
8. экология
10. птицы
13. одуванчик
14. природа
16. ручеек
18. планета

Down:

1. земля
3. чистота
4. озеро
6. дерево
7. небо
9. трава
11. загрязнение
12. животные
15. небо
17. источник
19. вода
20. океан

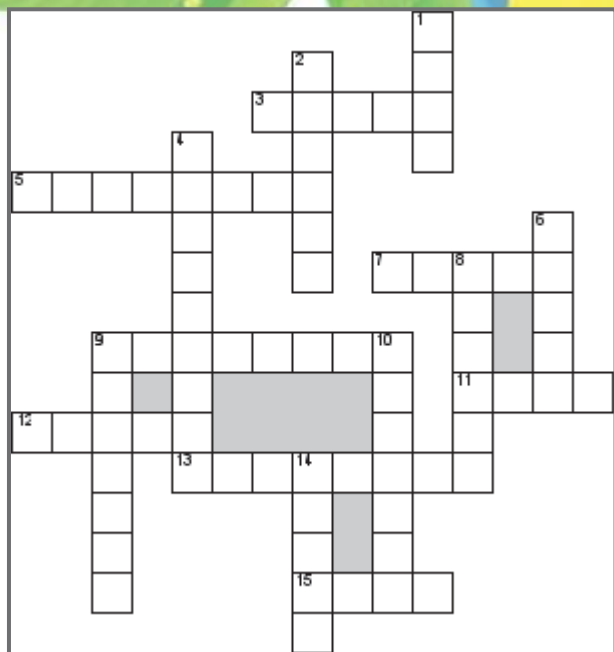
do the crosswords



The crossword is prepared by
I. Dorozhko and A. Kremensov

Across:

3. A large wild animal of the cat family with yellow with orange fur with black lines
5. A small animal covered in fur with a long tail with a lot of fur, which climbs trees and feeds
7. A large animal with four legs which people ride on or use for carrying things or pulling
9. A small brown mammal with a protective covering of spines on its back
11. A large, strong wild mammal with a thick fur coat that lives especially in colder parts of
12. A large animal with a long neck, that lives in the desert
13. Very large grey mammal which has a trunk (= long nose) with which it can pick things up
15. A quite large animal with four legs which eats grass and leaves. The male has antlers (= wide



Down:

1. An animal like a large rabbit that can run very fast and has long ears
2. A baby pig
4. A large reptile with a hard skin that lives in and near rivers and lakes in the hot wet parts
6. An African wild animal which looks like a horse, and which has black or brown and white stripes
8. A small animal with long ears and large front teeth, which moves by jumping on its long back
9. A small animal covered in fur with a short tail and large spaces in each side
10. A large African animal with a very long neck and long legs

The crossword is prepared by **cadets**
of the 5th course and a teacher Savinykh E.N.



Над номером работали:

Кадеты 6 класса:

Кременцов А., Мордасов П.,
Тихонов Б., Крутиков А.,
Зайтов М., Ушаков Д., Джабаров С.,

Дорожко И., Кондрашов А.,
Вершинин А.

Руководитель проекта:

Неустроева Анна Андреевна,



GUEST PAGES



Some ecological calendars for you:

Some cadets of our school decided to create calendars devoted to the ecological problems in Tyumen.

They hope that their calendars will make people think about the world around them and not to pollute it.

You may scissor them out and hang on the wall in your room.



The material was prepared by
V. Niy,
D. Makarov and
a teacher
O.A. Ommuk

Before you put the litter into the water, remember:

A tissue will disappear in three months

A tin will dissolve in the water in 500 years

A glass bottle will swim in it for 1000 years

2018

January							February							March						
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su
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www.offnote.net



It is required from 5 to 15 years for decomposition of cigarettes' filters. During this time they can appear in stomachs of fish, birds and marine mammals.



During a year, a medium size car throws out so much carbon dioxide as it weighs.



We have 11 million dumps which occupy 260 thousand hectares. It is more than the territory of Luxembourg!

2018

January

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February

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September

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November

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December

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