

# Формы, методы и технологии формирования экологического мировоззрения на уроках английского языка.

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Санкт-Петербург 2019 г.

# Понятие: Экологическое мировоззрение.

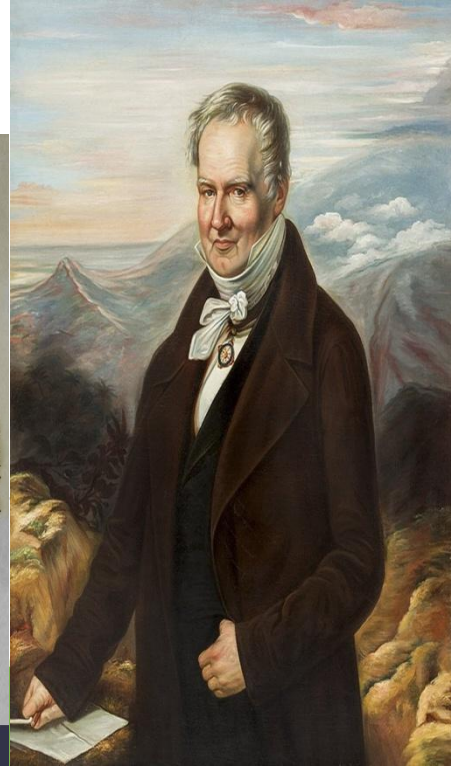
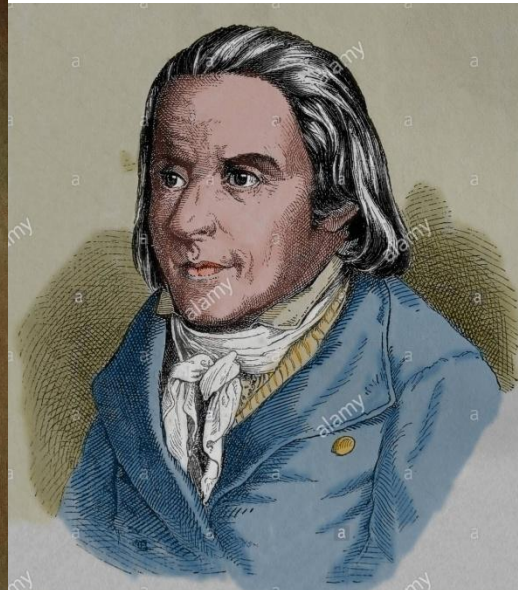
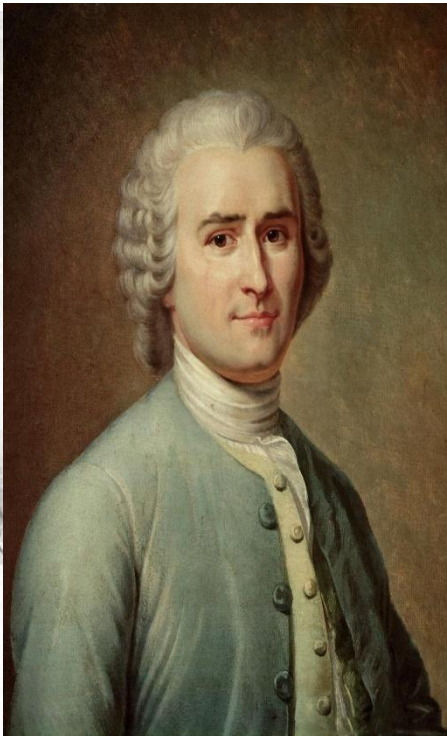
*Экологическое мировоззрение - это система обобщенных знаний об окружающей природе и месте человека в ней.*



В педагогическую науку понятие «экологическое мировоззрение» вошло благодаря работам таких ученых: А.Н. Захлебный, И.Н. Пономарева, Н.М. Чернова.



Педагогическую ценность укрепления  
гуманных чувств ребенка к окружающей  
природе подчеркивали великие педагоги  
прошлого, как: Я.А Коменский, Ж.-Ж.Руссо  
Г. Песталоцци, А. Гумбольдт, Ф.В.А.  
Дистервег.



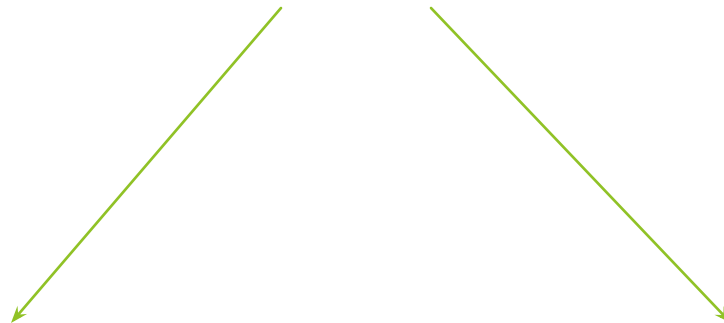


# НА СОВРЕМЕННОМ ЭТАПЕ ВЫДЕЛЯЮТ ДВА ВИДА

## ЭКОЛОГИЧЕСКОГО МИРОВОЗЗРЕНИЯ:



АНТРОПОЦЕНТРИЧЕСКОЕ



ЭКОЦЕНТРИЧЕСКОЕ



# Предмет: Английский язык, как средство для формирования экологического мировоззрения.



Формирование ответственного отношения к природе не может происходить в рамках только отдельного предмета, а требует участия разных предметов.

Иностранный язык, располагает большими возможностями для воспитания экологически развитой личности, формировать бережное отношение к природе, как к общественной и личной ценности.

# Этапы системы непрерывного экологического образования:

- ▶ Первый этап - дошкольный уровень
- ▶ Второй этап - начальная школа(1-4 классы)
- ▶ Третий этап - основная школа (5-9 классы)
- ▶ Четвертый этап - полная средняя школа (10-11 классы)
- ▶ Высшие учебные заведения



**"Are you as green  
as grass?"**



## Curricular: Geography 3h

### WHAT IS DEFORESTATION?

Deforestation occurs when people cut down whole forests of trees. Tropical rainforests are particularly **under threat**. Two thirds of the lowland tropical rainforests in Central America, for instance, have been turned into land for grazing since 1950.

#### Why is it happening?

Small farmers cut down a few acres of trees in order to grow crops or let their animals **graze**. They clear them in a process called "slash and burn". Loggers also cut down a lot of trees for wood and paper products and urban developers turn areas of forest into mines, new roads, homes, or factories. Natural factors such as wildfires sometimes contribute to deforestation, too.

#### Why is it such a problem?

Deforestation is a major threat to the **delicate** ecosystem of our planet. Basically, it destroys the homes of animal and plant species and many of them die out including many unique species that could be used to make medicines for some of the world's worst diseases. More than two thirds of all medicines with cancer-fighting properties, for example, come from rainforest plants. Also, trees **absorb harmful** greenhouse gases. When forests are cut down or burnt, most of these gases stay in the Earth's atmosphere, which speeds up global warming. In fact, in the next 24 hours, deforestation will be responsible for the **release** of as much CO<sub>2</sub> into the atmosphere as that from as many flights as it takes to carry 8 million people from London to New York!

#### How can we help to fight deforestation?

- Take part in tree-planting days to replace some of the lost trees.
- Recycle paper and buy recycled paper products such as notepads.
- Eat less meat or at least check where it has come from. If it's from rainforest areas, it's likely that rainforests were cut down in order to raise cattle.
- Encourage your family, friends, and neighbours to think about the rainforests too by telling them all about the issue and how they can help.
- Support charities and companies that support rainforest protection by donating money and buying wood products like furniture made from sustainable forests\*.

\*forests grown for commercial use

#### RAINFORESTS: FAST FACTS

- Tropical rainforests cover 6-7% of the Earth's surface. The largest are: 1) The Amazon, South America; 2) The Congo, Africa; 3) South East Asia; 4) New Guinea; 5) Madagascar.
- Areas of forest the size of 2 football fields are lost per second due to deforestation. If this rate continues, the world's rainforests will disappear within 100 years.
- Rainforests are **home to** over half the plant and animal species in the world. 137 species become extinct every

#### Check these words

tropical rainforest, turn into, slash and burn, logger, urban developer, mine, contribute, major threat, ecosystem, include, die out, unique species, disease, cancer-fighting properties, greenhouse gas, global warming, sustainable, commercial

## 2f Skyscraper farms

### Reading & Listening

- 1 Look at the picture, then listen and say. What do you think a skyscraper farm is? How does it work? Read the text to find out.



## Growing Up

**Stories of The Hanging Gardens of Babylon**, one of the seven wonders of the ancient world, tell of a structure with lush green gardens on different levels many metres high. These are long gone, but as our modern consumer society continues to drain the world of its resources, the population rises and food prices soar, a modern-day equivalent may soon be springing up in your neighbourhood!

According to UN statistics, by the year 2050, the population of planet Earth will have risen to over 9 billion and feeding 1) ..... these people will require extra farmland the size of Brazil! Finding this agricultural land will be a 2) ..... challenge, but one that some creative scientists believe they have solved with the idea of vertical farming. The idea is actually very simple. Just as an apartment block has different storeys, a vertical farm will have many different floors growing a variety of fruit and vegetables. On one floor there will be lettuces, on the next floor carrots and on another tomatoes, and so on. The walls will be made of glass to allow in sunlight and instead of soil, the produce will be grown in a solution of nutrients and water.

Dr Dickson Despommier, a professor at Columbia University, points out that just one 30-storey building could provide food for 10,000 people. "With about 160 of these buildings, you could feed all of New York," he says. But as 3) ..... as offering a solution to possible food shortages, this idea is environmentally friendly. Often, by the time food 4) ..... on your plate, it will have been travelling for days or even months! Vertical farms, however, will go up in the centre of the city and will be powered by solar and wind power so we'll save on transport costs, burn less fossil fuels and we'll all be eating fresh local produce from the skyscraper next door!

The idea isn't without its problems, though. Crops nearer the glass would get more light which means they would grow quicker than crops farther away. The only whole floor to get 5) ..... sunlight would be the top one. Possible solutions include having a permanent light source on every floor like the ones we now have in industrial greenhouses. At the moment, the 6) ..... of building and lighting these modern Hanging Gardens of Babylon is far too high, but that doesn't mean we won't be able to do it soon.

Mankind has been farming horizontally for over 15,000 years, but now almost 80% of our farmland is already in use. Isn't it about time we started growing up?

#### How to consume less and produce more

- Convert the rooftop of your block of flats into a garden and grow your own vegetables.
- Use window boxes to grow fruit and veg like tomatoes, peppers and strawberries.
- Some communities are getting together and starting their own community farms on pieces of wasteland. You could get involved in a local project like this or even start one of your own!

#### Check these words

wonder, structure, lush, long gone, drain, rise, soar, equivalent, spring up, vertical farming, solution, nutrients, food shortage, environmentally friendly, powered, transport costs, local produce, permanent light source, industrial greenhouse, mankind, horizontally, consume, convert, wasteland



## 5c Culture Corner

### DOING SOMETHING FUNNY FOR MONEY

FOR RED NOSE DAY

So what? 'Red Nose' charity event in the UK is a laugh! In 1985, a farmer organised the first Comic Relief. Since then, Comic Relief has supported many different causes around the world, like helping kids in Africa.

#### What happens on Red Nose Day?

On Red Nose Day, there are lots of people who make donations. Many famous people help. In 2009, a group of celebrities in Kilimanjaro to raise money! Everything is for a good cause.

#### How do people get involved?

Anyone can do something funny to work and collecting donations for Red Nose Day to help raise money.

- Look at the title and the pictures. What happens on 'Red Nose Day'?
- Listen and read to find out.

- Read again and mark the sentences T (true), F (false), or NS (not stated).

- Comic Relief is an annual event.
- All of the money from Comic Relief goes to Africa.
- Cheryl Cole is a celebrity.
- Only famous people can take part in Red Nose Day.
- Nearly everyone in the UK buys a red nose.

- Use words from the **Check these words** box in correct form to complete the sentences.

- We are organising a 10-km run to ..... for the animal shelter.
- Millions of ..... watch Comic Relief.
- There was a terrible ..... in 1998. Over 70,000 people died of hunger.
- You can ..... to the cash or by cheque.

## 5e Endangered Species

### Vocabulary Threats to animal species

- The sentences (A-E) describe ways animals are in danger. Match the sentences to the pictures (1-5).

Listen and check.

- Tourists disturb their habitats.
- They get caught in rubbish or fishermen's nets.
- Deforestation destroys their habitats.
- Poachers hunt them for their meat or fur.
- Pollution poisons the sea or land where they live.



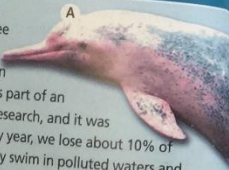
## Animal SOS!

### Holidays that have made a difference ...

Did you know that there are more than 5,000 endangered animal species in the world today and at least one species dies out every year? Well, these three people decided to do something about it! They've all recently been on a working holiday to help an endangered species. They told us all about their experiences ...

#### Pink River Dolphin

Hayley has just spent three months on a floating house boat in the Amazon Rainforest in Brazil. "I was part of an observation team doing research, and it was amazing!" she says. "Every year, we lose about 10% of these clever creatures. They swim in polluted waters and sometimes get caught in fishermen's nets. There are more than 300 dolphins here and we had to record new births and monitor the babies. In the evenings, we sat on the porch and listened to the sounds of the jungle. Then, we went to sleep in hammocks! It was so relaxing!"



Check these words  
species, floating, rainforest

#### Cross River Gorilla

Ryan has just spent 6 months in a tent tracking these gorillas in the rainforests of Cameroon after he saw a documentary about them. He says, "I was very shocked when I heard there are only 300 of these gorillas left because of hunting and deforestation that has destroyed their habitat. Every day, we walked for miles up steep slopes in the rainforest.

Our guide was a poacher in the past who hunted the gorillas for their meat! I was so excited when we saw our first gorilla. We recorded lots of information about its location and activities. We also talked to locals and suggested alternatives to cutting down forests for farming. This was the most interesting - and challenging - experience of my life!"

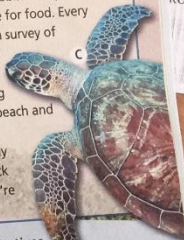


- Fill in: steep, conservation, spectacular, endangered, working, polluted, then use the phrases to write sentences based on the text.

- ..... animal species
- ..... waters
- ..... sunrises

#### Loggerhead Sea Turtle

Mary has just come back from the Greek island of Zakynthos after helping with a turtle conservation project there. She says, "Every summer, thousands of females return to lay their eggs in the sand on the beach. The problem is that tourists often damage their nests by accident. They also leave rubbish like plastic bags that the turtles mistake for food. Every day at dawn, our team did a survey of nests and eggs. It was tiring but we saw some spectacular sunrises! During the day, we patrolled the beach and told tourists all about the turtles. I've already told my friends that I'm going back next year - and that they're coming with me!"



- Circle the correct adjectives.

- We felt shocked / shocking after watching the documentary about endangered species.
- I once saw a bear while camping. It was such a frightened / frightening experience.
- He nearly fell asleep during the film. It was so bored / boring!
- We were so tired / tiring after the jungle trek!

## 5e Be the Change



### A CHANGE FOR THE BETTER

Mahatma Gandhi once said 'Be the change you want to see in the world.' This is what these three people have done. The changes they made look like this.

#### A Liz Murray

Liz has shared the stage with world leaders like Mikhail Gorbachev and the Dalai Lama as an international speaker. It's hard to believe that at the age of 16, she was homeless and sleeping on park benches and underground trains! Liz's parents were drug addicts and couldn't look after her and her sister. She says, "We ate ice cubes because it felt like eating. We split a tube of toothpaste between us for dinner." When their mother died, their father moved to a homeless shelter and Liz and her sister were out on the streets of New York. At this point, Liz decided to try to turn her life around. She went back to school and through dedication and determination, she eventually won a scholarship to a top university. Since Liz graduated from Harvard in 2009, she has been speaking at events to teenagers about staying away from drugs and gangs. She wants them to understand that they can reach their goals, whatever they have had to face in their lives.



### Vocabulary Life changes

- Listen and say.
- Which of these changes would you (not) like to make in the future? Why?/Why not? Tell your partner.

• satisfying • exciting • difficult • challenging • tiring • scary • risky

I'd love to set up a charity to help other people. It would feel very satisfying. I wouldn't like to have cosmetic surgery. It's too scary.

#### Reading

- Read the title and the introduction of the article. Then
- Read the article again and write L (Liz), M (Mark) or N (Narayanan).

#### Mark Boyle

A few years ago, Economics graduate Mark was the manager of an organic food company. He has always been passionate about the environment and social issues, but he felt that he wanted to do even more. He argued that if we grew our own food instead of buying it, we wouldn't throw a third of it away while millions around the world go hungry. So Mark gave up his job and decided to prove that we don't need money to survive, by living without it for a year. He moved into an empty house, put in solar panels for power, and old caravan in the countryside, put in a river. When he didn't start growing his own food and washing in a river. When he didn't have enough home-grown food, he went into the forest to pick wild food, like berries. Mark enjoyed the year so much that he has been living without money since then. Recently, he's written a book, The Moneyless Man: A Year of Freeconomic Living and hopes to use the profits to create a whole community that lives without money.



#### Narayanan Krishnan

Narayanan Krishnan was an award-winning chef who was about to take up a top job in Switzerland. Then, while visiting his parents at home in India, he saw an old man starving under a bridge. He says, "I felt that man and decided that this is what I should do for the rest of my life." He gave up his job and set up a charity called the Akshaya Trust. Every day, Narayanan now personally prepares and hands out 400 simple, tasty hot meals to the homeless. He also carries a comb, scissors and a razor so that he can give haircuts and shaves. Narayanan sleeps in Akshaya's kitchen, but he says he's enjoying his life. He has shown what one person can achieve when they set out to



## 5e

- Match the headings to the texts. In pairs, think of alternative ones.

CARING FOR THE HUNGRY  
A LIFE WITHOUT CASH  
FROM HOMELESS TO HARVARD

- Match the phrasal verbs in bold in the text with the meanings below.

- installed • gives • created
- started living in • change
- care for • started
- stopped doing

- Choose five of the phrasal verbs and make sentences about the people in the text.

- Use words from the **Check these words** box in the correct form to complete the sentences.

- Some people are ..... and live on the streets.
- She decided to put in ..... to reduce heating costs.
- They worked hard ..... their goals and finally they made it.
- ..... such as bullying, racism and poverty are matters that affect members of a society.
- He has enough ..... food to last for months.

### Speaking & Writing

- Think! Who do you admire





## Reading & Listening

- 1 What do you know about VITA?  
What does it do?  
Listen and read to find out.

- 2 Read again answer the questions in your own words.

- 1 What is VITA?
- 2 What are VITA's objectives?
- 3 What is its main activity?
- 4 What other activities is it involved in?
- 5 What has been a major success for VITA?

- 3 Match the words in bold in the text with their meaning.

- 1 wins .....
- 2 proper .....
- 3 help .....
- 4 struggle .....
- 5 walk around .....

What did you learn about VITA?  
Tell the class.

**THINK!** What can we do to protect animals and make their lives better? Discuss in pairs.

## Writing

Write your answers from Ex. 2 to make a summary of the text. Present it to the class.

# VITA is life

VITA animal rights centre is a non-profit charity organisation in Russia whose aim is to protect animals against cruelty through various means. Its main activity involves campaigning for better conditions for farm animals and for a ban on the testing on animals of medical and cosmetic products. VITA also fights for better living conditions for animals in zoos and circuses as well as providing food, shelter and medical assistance for stray cats and dogs that roam the streets.

VITA works in a number of ways to protect and improve the lives of animals. One of its major roles in society is to try to make people aware of the plight of suffering animals and in order to achieve this takes part in numerous television and radio programmes, gives lectures on animal issues and organises special events. The organisation also works with the government to try to introduce new animal welfare laws.

Many celebrities support VITA and have helped it achieve some great victories in the recent past. In March 2008, VITA took a number of Russian stars including Alyona Sviridova to the coastal village of Letnyaya in an attempt to put a stop to the killing of newly born Greenland seals. The trip attracted a lot of publicity and shortly afterwards a ban was placed on the hunting of baby seals.

The organisation co-operates with well-known international charities and is a member of the World Society for the Prevention of Cruelty to Animals and the RSPCA. It hopes to be able to do more in the future to protect animals and give them a decent life.

### Check these words

animal rights, non-profit, cruelty, peaceful, campaign, ban, cosmetic product, fight, assistance, stray, roam, make people aware of, plight, numerous, welfare laws, support, victory, attempt, decent



Vocab  
charac  
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## Extreme Places: The Taiga

The Taiga, which means 'forest' in Russian, is the world's largest biome. It consists of coniferous forests and covers a large part of Russia, Scandinavia, and North America. The Taiga has a subarctic climate with large differences in temperature between seasons. Winters are long and very cold with only snowfall, and temperatures can drop as low as -54°C. Summers are very short but warm and humid; sometimes temperatures reach 30°C.

The trees of the Taiga have adapted to the low levels of sunlight and the extreme conditions. Most of them are evergreen trees which means they keep their leaves all year round. The leaves are also a very dark green colour so that they can absorb more sunlight for photosynthesis. The cone shape of the evergreens helps snow slide off of them so the branches don't break from the weight of the snow. The environment of the Taiga encourages healthy tree growth and some of the trees there are thousands of years old.

The Taiga also hosts a wide variety of wildlife. It is home to Russia's largest populations of brown bear, wolf, moose, reindeer, and red fox. It also has as many as 300 species of birds including the golden eagle and the great grey owl. The Taiga, however, is in danger because of global warming and an increase in deforestation over the past decades. Fortunately, governments are now taking measures to protect this precious natural habitat.

### Check these words

biome, coniferous, subarctic climate, drop, humid, reach, adapt, level, absorb, photosynthesis, cone, slide, encourage, growth, host, moose, increase, deforestation, decade, take measures



## Reading & Listening

- 1 Look at the pictures and the title? What is the weather like in the Taiga? What lives there?  
Listen and read to find out.

- 2 Read the text and mark the statements T (true), F (false) or NS (not stated). Correct the false statements.

- 1 The winters are very long in the Taiga. ....
- 2 Life is very difficult in the Taiga. ....
- 3 The Taiga is a good place for trees to grow. ....
- 4 There isn't a lot of animal life in the Taiga. ....
- 5 Cutting down trees helps the Taiga survive. ....

## Speaking & Writing

- 3 Complete the table with information about the Taiga. Use the completed table to present the Taiga to the class.

Location	
Climate	
What lives there	
Why it is important	

- 4 **THINK!** What do you think it would be like to live in the Taiga? Would you like to live there? Why?/Why not? Explain.

- 5 **ICT** Collect more information about the Taiga and its wildlife. Make a poster. Present it to the class.



## Writing 5<sup>h</sup>

Dear Helen,

► **1** How are things? I've been at Camp Greenfoot for a week now, where I'm working this summer as a camp counsellor and I really love it here!

► **2** Camp Greenfoot is an eco-camp. You probably think that all we do here is learn about recycling, but it isn't like that at all! Yesterday we went on a nature hike with the kids, and last night we all sat around a campfire and sang songs. We also organise lots of fun eco-projects with the kids. We've already planted trees to replace the ones that burnt down in a forest fire.

► **3** The best part about this camp is that we help the environment and still have fun. I'm responsible for a small group of kids, and that can be tough (like when I have to wake everyone up in the morning!) but generally they are great kids!

► **4** I hope you're having a great summer, too. Write back when you get a chance.  
All the best,  
Alina



### Study skills

#### Proofreading

Always proofread your work to check for mistakes. Make sure you have:

- included all the necessary information.
- checked for spelling/grammar mistakes.
- used an appropriate greeting/beginning/ending.
- used correct style: formal or informal.

**5** Imagine you are working to help the sea turtles on p. 87. Send an email to your English pen friend describing the experience (100-150 words). Use the plan below. Proofread your work.

Эффективными формами работы являются обучающие эколого-экономические игры, экологические тропы, квесты, фотографирование, доклады, тематические плакаты, стенгазеты, викторины, экологические диктанты, работа с текстами о сохранении природы.



Опираясь на идею интегрирования учебных предметов, весьма желательно было бы создать интегрированный курс

## «Экология + Иностранный язык»

Он может быть использован в классах с углубленным изучением английского языка и быть рекомендован учащимся, интересующимся иностранным языком и желающим укрепить, углубить и расширить свои знания по

предмету.



Современное  
общество  
нуждается в  
экологически  
грамотном  
населении!

Thank you for  
attention!

