



# The green lungs of our Planet

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# Forests are the green lungs of our Planet



# **Our project is very important and relevant**

**We recall that**

- **Forest is oxygen, the lungs with which we breathe.**
- **Forest helps us to restore our physical and psychological strength!**
- **Saving the forest today – we think about the future of our children and grandchildren!**
- **Without forests there will be no life on the Earth!**

# Project aim:

to draw attention to the  
problem of preserving the  
forests on our planet



# Project objectives:

1. Collect and study material on the forest resources of our planet.
2. Collect the solid facts to attract to the forest problem.
3. Find out what is happening on our planet for the salvation of the forest.
4. What is our students' work on this issue?
5. Gather information for the quiz «The Christmas Tree».
6. Create photo collage «What do we know about the trees of our planet?»
7. Make a leaflet «Take care of the forest!»

# The value of forests for humanity



**1. Forest is the lungs of the planet, excellent biological air filter.**

**2. Forests influence the weather.**

**3. The regulator of natural processes.**

# The value of forests for humanity



**4. Forest plays a large role in the water cycle.**

**5. Forest allocates phytoncides, which kill disease-causing microbes, improve the air and health of people.**

# The value of forests for humanity



**6. Forests play a major role in the development of the economy.**

**Directions of use:**

- **The source of food (mushrooms, berries, animals, birds, honey);**
- **The source of energy (firewood);**
- **Building material;**
- **Raw materials for production (paper production).**



# The value of forests for humanity



**7. The forests are the health resort, decoration of the landscape, sources of pleasure and health.**

# The value of forests for humanity



# Interesting facts speak for themselves



- **Forests occupy about 30 % of the land area. It is more than 4 billion hectares of land.**
- **1 hectare of forest absorbs 6-7 tons of carbon dioxide and highlights 5-6 tons of oxygen in a year.**
- **1 hectare of forest filters up to 50-70 tons in a year.**

# Sad facts speak for themselves



- For 10 thousand years have disappeared from the face of the Earth for about 2/3 of all trees.
- 22 % of undeveloped forests left in Russia and 26% in America.
- 13 million hectares of forest are lost each year, whereas only 6 hectares grow.
- This means that the forest disappears every second as well the size of a football field.

# How much forest is left ?



**About 3 billion hectares  
of land**

**International world  
resources Institute received a  
map of the state forest planet  
for the last 8000 years.**

- © **What's left? There are the  
three major forests: in  
Russia, in Canada and  
Alaska and in the tropical  
forest in the North-West of  
the Amazon basin.**

# How to save forests?

**International WRI developed a new approach to the use of forests:**

- ◎ **1. Collection necessary information on the state of forests;**
- ◎ **2. The creation of a system of payments for use of forest resources;**
- ◎ **3. The creation of a system of measures to improve the condition of preserved forests on the planet.**

# How to save forests?

- ◎ International WRI recommends each state:
- ◎ 1. Protect undeveloped forests;
- ◎ 2. Save at least two «variants» of each type of forest ecosystems;
- ◎ 3. Establish land use in the territory;
- ◎ 4. Try to restore forests.



# How to save forests?

Ecologists suggest many ways:

- ◎ 1. The transition from paper to electronic;
- ◎ 2. The collection of waste paper and separate gathering of garbage;
- ◎ 3. Establishment of forest farms, which will be planted trees;
- ◎ 4. A ban on logging in protected areas and tougher penalties for it;
- ◎ 5. Increase of the stamp duty on the export of wood abroad.





# How to save forests?



**Different information from the Internet:**

**6 simple and necessary rules**

- 1. Follow the rules of fire safety.**
- 2. Don't engage in deforestation. This is a crime.**
- 3. Don't leave household and construction debris in the woods.**
- 4. Don't encourage poaching .**
- 5. Teach children to love and protect nature.**
- 6. Participate in cleanup and volunteer programs, plant trees.**

# How to save forests?



Children take part in ecological marathon «The Earth is a planet of life», create projects «How to help the forest?»

- ◎ Develop places of mass rest of people.
- ◎ Don't litter.
- ◎ Plant flowers and trees.
- ◎ Create places for kindling fires.
- ◎ Establish collection points.
- ◎ Enclose the existing anthills.
- ◎ Inform the population.
- ◎ Make flyers and fire stands.

# How to save forests?



**The Kemerovo region took part in the action «Save the Christmas tree».**

- ◎ **The life of Siberian spruce is about 250-300 years.**
- ◎ **Age Christmas trees - 10 to 15 years.**
- ◎ **1 hectare of coniferous forest clears up to 50 tons of dust.**
- ◎ **Yearly, more than 15 thousand trees are cut in the New Year.**
- ◎ **It is more than 7 million trees in Russia.**

# How can we replace the Christmas tree for New Year Celebration ?



- ◎ In one school conducted a survey:
- ◎ 68 families put the Christmas tree.
- ◎ 22 families decorated the house with fir branches.
- ◎ 98 families put artificial spruce.
- ◎ 10 families made the Christmas tree themselves.
- ◎ 130 trees were saved by our families. It is a whole forest!

# How to save forests?



**Ecologists and activists of Kuzbass contributed:**

- ◎ **1. Spending exhibitions, film screenings, flash mobs;**
- ◎ **2. handing out leaflets on the streets not to cut or buy a live Christmas tree, but to buy artificial fir-trees.**

**What kind of Christmas tree would you like to choose?**



**But after the holiday we see a sad picture - everywhere already thrown green beauties. There is another way - a decorative tree in a pot.**



# Take care of nature!



**Take care of yourself!**





**Plant a tree!**



# PHOTO COLLAGE:

**WHAT DO YOU KNOW ABOUT TREES?**

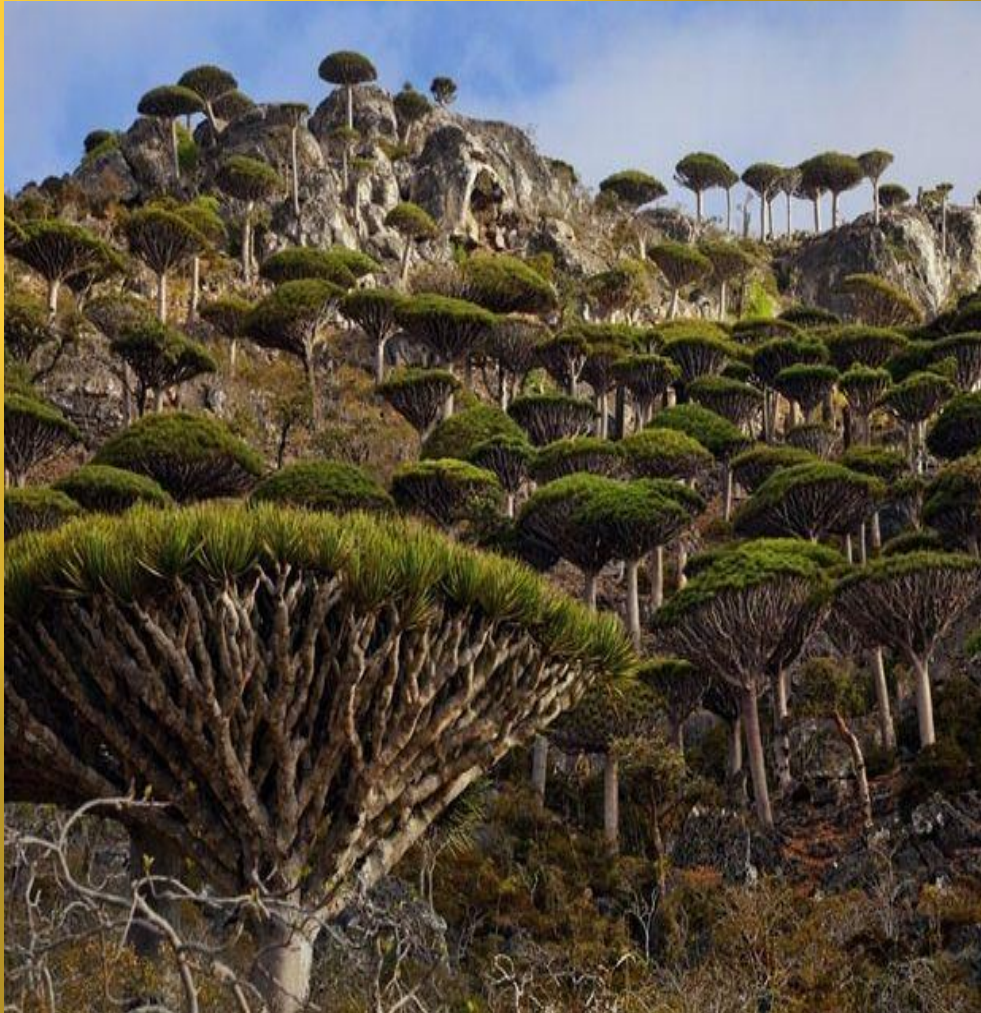
# **Top - 10 the oldest trees on the planet**

# 1. Spruce Tikko, 9500 thousand years



**The oldest Spruce  
grows on  
mountain  
Fulufyallet in  
Sweden.**

**2. Dragon Trees, 7-9 thousand years,  
the Arabian Sea, the island of Socotra**



**A giant  
cactus**

**«Dragon's  
blood»**

**3. «Zoroastrian SARV»,  
4-4,5 thousand years, Iran**



**A giant cypress  
with height of  
25 meters and  
18 meters in  
circumference**

4. «Tree of a hundred horses», from 2 to 4 thousand years, Sant' Alfio, on the slopes of mount Etna in Sicily



**The oldest chestnut in the world is just 8km from the active volcano Mount Etna.**

**5. Tree Yew from the village Hangery,  
4000 years, North Wales**



**An old, old yew  
with an evil  
spirit on the  
territory of the  
small church**



6. Pine Methuselah, 4000 years,  
National Park, California



**Bristol Pine**  
is named after  
the oldest biblical  
character.

**7. General Sherman, 2300-2700 years,  
the USA, National Park «Sequoia»**



**A giant tree,  
the oldest and  
tallest on the  
planet**

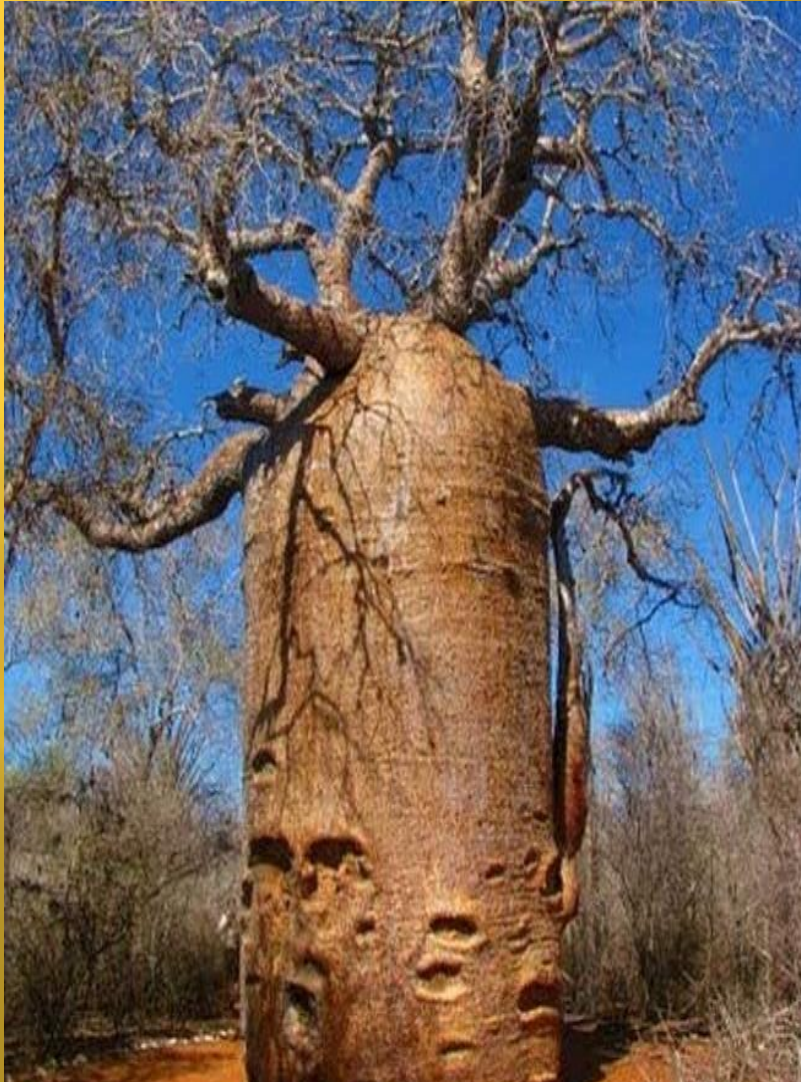
**8. Strashensky Sycamore tree,  
2000 years, Nagorno-Karabakh**



**In local language  
it is called Tnjri.**

**The ancient  
sycamore tree  
was considered  
«The tree of  
life».**

**9. Baobab «The kettle Ifati»,  
1,200 years, Madagascar, Toliara**



**It is called  
«Teapot» because  
of the, which  
accommodate 117  
thousand liters of  
water.**

**10. Oak Barthorp, 1200 years,  
Manthorpe, East, UK**



**It is one  
of the oldest  
oaks  
in Europe.**

# **Trees - dwarfs**

# Herbaceous willow, **Arctic**



**The smallest tree on the planet is a 6 centimeter dwarf willow.**

# Bonsai, China and Japan

**Bonsai** is the art of growing an exact copy of this tree in miniature.





# Trees of Russia

# Symbols of Russia

**BIRCH**



**LARCH**



# Conifers

**PINE**



**THE SIBERIAN SPRUCE**



# Oak



# Willow



# **Trees donors and vampires**

# Birch



**Birch focuses  
energy and  
attention,  
perfectly  
ionizes the air.**

# Oak



**The oak helps to cope with stress, activates blood circulation and speeds recovery.**



# Pine, spruce



**Walking through  
the pine forest, you  
can get rid of  
cough and cold,  
but you can get  
sick heart.**

# Beech



**Beech increases resistance to stress and ability to concentrate, improves circulation.**

# Chestnut



**Chestnut cures insomnia, relieves nervous tension and dispels fears.**

# Larch



**Larch has a strong anti-inflammatory action, it fills one with optimism.**

# Linden

**Linden** gives a charge of vivacity.



# Poplar



**It actively «sucks away» the negative energy from the environment but often causes headache.**

# Trees donors



Oak, Pine, Acacia,  
Birch, Cedar, Maple,  
Rowan - **Trees**  
**donor**, generously  
endowing the  
human energy.



# Trees **vampires**



**Poplar, Aspen,  
Ash, Lilac, on  
the contrary,  
have a solid  
reputation of  
**vampire trees.****





# **The most unusual trees of the world**

# Hyperion, California, USA



**The tallest tree on  
the Earth**

**It is higher than  
the statue of  
Liberty.**

# **Tule Tree, 2000 years, Mexico**



**The most  
discordant  
cypress and  
the thickest  
tree on the  
Earth**

# **The baobab, 6000 years, South Africa**



**In 1933, inside the trunk of the baobab was equipped with a bar.**

**In it can fit 15-20 people.**

# **Bombax, Silk trees, Cambodia**



**It is a temple with  
the trees which  
are UNESCO  
world Heritage  
Site list.**

# The great Banyan tree, *Ficus Bengali*, Tree «Forest», **India**



**It's hard to  
understand that  
this is not a  
shady grove but  
one tree.**

# Tree Wawon, Yosemite national Park USA



A tree is so big that in 1881 in his trunk had made **a tunnel into** which freely passes a car.

# The Baobab, **Madagascar**



**Massive trunk serves as a water source for local fauna, especially in the dry season.**



# The sacred Fig Tree of the Sri Maha Bodhi, Sri Lanka



Under the huge dome  
and aerial roots  
hanging down to the  
ground **the great  
Buddha reached  
Enlightenment** in the  
**sixth century BC.**

# Rainbow Eucalyptus, **Philippine Islands**



**Beautiful coloring of the bark comes from the permanent detachment of old strips of bark, bright green, young bark...**

# «Curve» forest, near Gryfino, Eastern Poland



**Unusual forest  
with 400 trees.  
Their wood is  
used in the  
manufacture.**

# Walking trees, **Lake Baikal**



**The complex root system helps these trees (larches and pines) to stay on the surface.**

# Sycamore, California

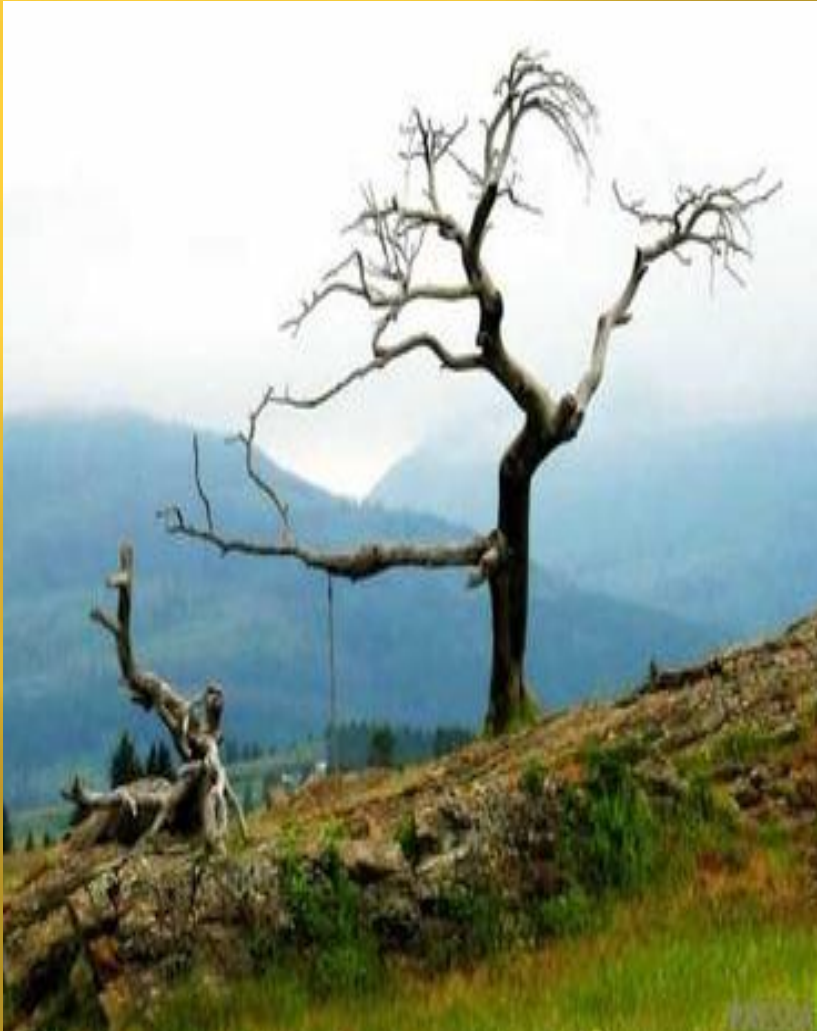


**Wood basket**  
–there is the **six**  
**individual**  
**plants.**

# The circus trees of Axel Erlandson, California



# Don't kill pine, **Canada**



**It dried up in the  
1970-ies.**

**The locals set the  
tree in place and  
here today the  
tree stands as a  
living.**

**Acacia, «The Tree of life»,  
the desert of Bahrain**



**It grows in the  
desert, is alive,  
thanks to the  
extremely  
powerful and  
deep root system.**



# Spiny peach Palm, Costa Rica and Nicaragua



**Its trunk is covered with sharp black needles.**

**Fermented the palm fruit is a favorite treat.**



**The milk tree,  
South and Central America**



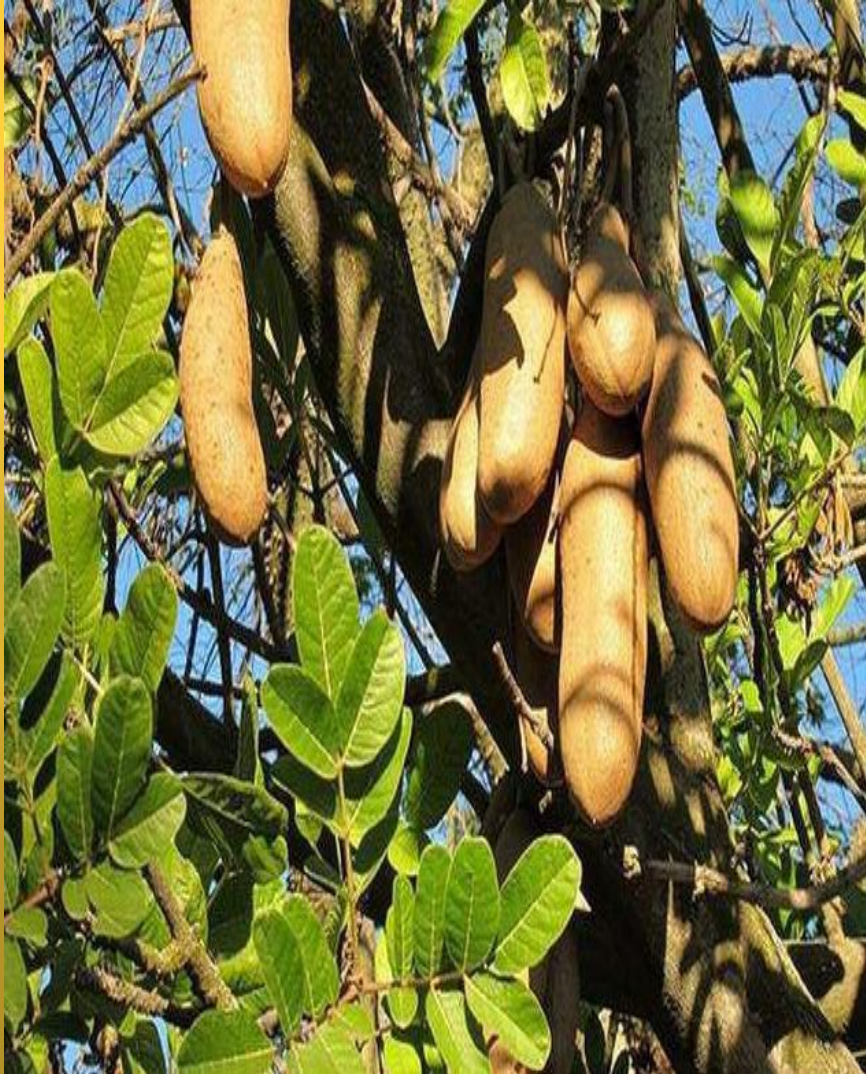
**The milky juice  
of the tree, both  
in appearance  
and taste like  
cow's milk.**

# Breadfruit, Thailand



It bears 12 kg  
oval fruit  
«rolls» which  
accumulates  
starch.

# Sausage tree, Africa, Madagascar



Only hippos,  
monkeys and  
giraffes eat  
**Kigelia's fruits**  
which have a very  
significant weight  
– nearly 8 pounds.

# Candy tree, **Southeast Asia**



**Hovenia «Sweet»**  
**Its stalks taste like raisins with a taste of rum.**



# Candlestick tree, **Panama**



**In the trees you  
can see the **real  
candles.****

**The locals use  
them to light  
their homes.**

**Soapy wood, Sapindus,**  
**the Florida Peninsula**



**Lightly rubbing  
his ripened the  
fruits, you will **get**  
**some soap** lather.**

# Tree Keppel, **India**



In taste they  
resemble **mango**  
and **grapes**.



# Cannon tree, **South America**



**It is dangerous to come near him or stand under it. There is a risk of getting hit.**

# Bottle tree, **Namibia**



**The most  
poisonous plants  
on our planet  
Its milky juice is  
extremely  
dangerous.**



# Tree Yew, **Europe, Asia**



**It is listed in the red book. The needles of the tree contain toxic substances, and when it falls, all the plants under it are killed.**

# Oil tree, **Philippine Islands**



Tree «Hang», its fruits contain almost **pure oil**. In recent years, the country develops a **new technology of using the fruits of this tree as a fuel source for engines.**

**Albitsiya, the sleeping tree, the silk tree**

**India, Australia, the Caucasus and Central Asia**



**Mimosa is the  
large beautiful  
plant.**

**Its height is  
about 12 meters.**

# Wisteria, **Japan**



**The most  
beautiful tree in  
the world.**

**Take care of nature!**



**Take care of yourself!**





**Plant a tree!**



**Thanks for attention!**