

Transformations of trees

Trees are useful indicators of the changing environment, changes caused by us humans. By examining phenology in longer time intervals, you can find out how the course of individual phenophases changes. Phenology is a science that determines the temporal onset and course of the basic life manifestations of vegetation (phenological phases) and studies them in relation to the conditions of the external environment.

Task No.1

Choose any 3 trees near your school and observe them.

During the year, you can observe 6 phenological phases on the trees. Try to record all six:

1. Budding - when the buds of new leaves can be seen on an open bud.
2. The first flowers - when the petals are open so that you can see the inside of the flower (only with chestnut, mountain ash and linden).
3. First leaves - when the first fully developed leaf appears and its shape can be recognized (it does not have to be an adult leaf).
4. Ripe fruits - of the observed species, only rowan has fleshy berries, which are red when ripe, the other trees have seeds stored in hard (dry) fruits, which gradually fall off.
5. Beginning of leaf fall - when the leaves begin to fall and the first bare branches appear. The leaves may start to drop before they start to change color.
6. Full coloring - when all the leaves acquire full autumn color.

Tree No.1

Type of tree	
Brief decription of the tree	
Approximate tree height	
The perimeter of the tree in 1.3 m above the ground	
Budding date	
First flowers	
First leaves	
Ripe fruits	
Beginning of leaf fall	
Full coloring	

Tree No.2

Type of tree	
Brief decription of the tree	
Approximate tree height	
The perimeter of the tree in 1.3 m above the ground	
Budding date	
First flowers	
First leaves	
Ripe fruits	
Beginning of leaf fall	
Full coloring	

Tree No.3

Type of tree	
Brief description of the tree	
Approximate tree height	
The perimeter of the tree in 1.3 m above the ground	
Budding date	
First flowers	
First leaves	
Ripe fruits	
Beginning of leaf fall	
Full coloring	

Task No.2

Trees provide an environment for many animals and plants. They are of great importance to humans, either as an oxygen factory or as a natural pharmacy. Choose 2 trees in the city and try to observe what animals and plants the tree is home to, what is the health status of the tree. Try to find out if the tree you have chosen (its leaves or fruits) has healing effects for humans.

Tree No.1

Tree as a home	
Tree as a oxygen factory	
Tree as a natural pharmacy	
The meaning of the tree for me	
Tree care	
Health status of the tree	

Tree No.2

Tree as a home	
Tree as a oxygen factory	
Tree as a natural pharmacy	
The meaning of the tree for me	
Tree care	
Health status of the tree	

Task No.3

Try to think about what happens in nature with fallen leaves. Does those leaves have any meaning, or is it no longer necessary for the forest at all?