

## Lesson 8



# FORESTS. WHAT ENDANGERS FORESTS? FOREST FIRES

**Lesson objective:** To acquaint pupils with the structure of forests and the threats they face. To help pupils understand the importance of forests to the Earth and its climate.

**Terms:** forests, forest types, threats, forest fires.

**Materials required for the experiment:** 3 - 5 wooden or cardboard boxes, natural raw materials (chestnuts, pine cones, twigs, pebbles, acorns, etc.).

## 1. Discussion

5-10 min. 

### Learning objective:

To develop pupils' abilities to draw conclusions based on arguments and experience. Consolidate knowledge about the forest.

### ACTIVITIES

**Teacher:** coordinates pupils' activities. Ask pupils to answer the questions, asks to select pictures that depict a forest

**Pupils:** answer the questions based on their own experience. Complete an interactive task by choosing the pictures with the forest.

**On the screen:** Questions:

1. What is a forest?
2. What lives in the forest?
3. How does the forest form?
4. How long does it take for the forest to form?

After the questions cards with photos needed for the interactive part of the task are displayed.

## 2. Interactive task (information)

3 min. 

### Learning objective:

To help pupils understand the structure of the forest, to introduce them to forest parts.

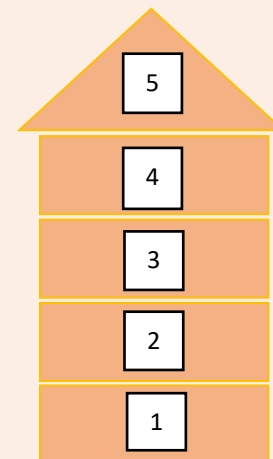
### ACTIVITIES

**Teacher:** coordinates pupils' activities.

**Pupils:** Select parts of the interactive task and listen to the information.

**On the screen:** pupils see a diagram of the shape of a house where each part represents a different component (part) of the forest:

1. Forest floor.
2. Shrubs (bushes).
3. Undergrowth.
4. Forest canopy.
5. Giant trees.







## 7. Information (Audio/text)

4 min. 

**Learning objective:** To acquaint pupils with forest pests.

### ACTIVITIES

**Teacher:** coordinates pupils' activities.

**Pupils:** observe the information on the screen. Get acquainted with a forest pests.

**On the screen:** a picture of a forest is displayed. When the animation starts it shows the influence of pests and humans on the forests.

Tree diseases are caused by viruses, bacteria, fungi and adverse environmental factors (heat, cold, hail, storms, lack of nutrients, environmental pollution). Trees weaken and may die.

There are a lot of animals that harm trees. Most of them are small insects, mites, aphids and moths. They suck tree sap, gnaw leaves and other plant tissues. As the climate changes, animals begin to migrate. New species of animals appear in the forests. They feed on forest vegetation, reproduce quickly. Other animals that feed on them do not always migrate together. This destroys the balance.

But the greatest enemy of the forest are people. They cut down huge areas of forests and do not replant them. Deforested areas are used for agriculture, manufacturing and other human-useful activities. People even cause forest fires by burning bonfires, smoking and behaving very irresponsibly.

## 8. Eco workshop

7 min. 

**Learning objective:** To help pupils understand how natural materials can be creatively used for various purposes.  
To develop pupils' creativity and cooperation skills while working in a group.

### ACTIVITIES

**Teacher:** coordinates pupils' activities.

**Pupils:** listen to the information and perform the selected work: construct an insect hotel or a sensory trail from collected natural materials.

**On the screen:** a description of the activity is displayed.

**Materials required for the workshops:** wooden or cardboard boxes, various natural materials (pine cones, chestnuts, acorns, twigs, pebbles, etc.), metal mesh (for an insect hotel).









## Source references:

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