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Do you know what is growing next to you?

The lesson is devoted to the issues of biodiversity. The students will get acquainted with the names of spore and seminal plants: they will learn to compare different types of plants in nature with pictures found on the Internet. Thanks to this lesson students will acquire the ability to recognize and name plants (because for some students, all conifers are just Christmas trees).

The lesson should be done in conditions allowing students free access to the Internet, using tablets or mobile phones. Using the Internet resources, lessons on this subject can be carried out at any time, becoming independent of the season of the year, whims of weather or poverty in the vegetation around the area.

WWW. https://learningapps.org/5265050, https://learningapps.org/5495376, https://learningapps.org/4201129

The lesson scenario to be implemented on science, biology.

Issues:
• knowledge of biological diversity,
• systematics - rules for classifying organisms
Duration: 45 minutes

Key question
• How many plants from the environment can you recognize?

Aims of the lesson

The student should:

• Be able to recognize common plant species

• Know the naming of species

• Can use multimedia as a valuable source of knowledge about nature

Methods, forms of work:
• Observation
• Work with a computer (tablet),
• Work in groups
• Work with iconographic material

Teaching aids:
• Live specimens of plant leaves (herbaria)
• Computers with access to the Internet, use of the Learning Apps
• Multimedia equipment for displaying photos, tablets
• Instructions for groups

The course of classes:
1. Preparation:
• Discussion with students about the role of plants in nature and the ability to recognize them
• The division of students into teams
• Set tasks for teams and choose a leader

2. Implementation
• Searching for information on the assigned topic
• After the set time, each group presents their work to the rest of the class.

3. Summary

A guessing game: the teacher uses the applications: https://learningapps.org

shows a picture of a plant (it can be the one that the students had a problem with the diagnosis). The student who recognizes it first, gets a point and then he displays his picture to be recognized, indicating the specific person to answer. For a correct diagnosis he gets a point and further this student asks the next question. The chain stops with an incorrect answer, then the teacher indicates the student to give the name of the recognized plant. Students get higher marks for the points gained.

Instructions for groups
1st group
Search for 10 species of gymnosperms on available Internet sources,
make a presentation. Each photograph of the species must contain a clear shape of the leaf and its flower or fruit. Sign the genre name.

2nd group
Search for 10 species of angiosperm tree on available Internet sources,
make a presentation. Each photograph of the species must contain a clear shape of the leaf and its flower or fruit. Sign the genre name.

Group 3

Look for 10 species of angiosperms on the available Internet sources,
make a presentation. Each photograph of the species must contain a clear shape of the leaf and its flower or fruit. Sign the genre name.

4th group

Search for 10 species of herbaceous plants in available Internet sources,

make a presentation. Each photograph of the species must contain a clear shape of the leaf and its flower or fruit. Sign the genre name.