

## Day for Learning together

**Topic:** Day for Learning together

**Grades:** 8<sup>th</sup>-9<sup>th</sup> grade

**Duration:** 1 day

**Integrated subjects:** Estonian language, mathematics, biology, informatics, art education.

**Keywords:** Group work, information retrieval, layout and design, photography, crossword puzzle, insect groups, mathematical shapes and their areas / volumes.

**Brief summary of the activity (-200 words):** Insect groups have been discussed before in biology lessons. Throughout basic school, various planar and three-dimensional shapes have been introduced throughout mathematics. The design of magazines has been discussed in art education. Computer science lessons cover search, Publisher, crossword puzzles, and image capture and tuning. Students are divided into groups of three. According to the group's task, the members of the group search for information material on the Internet, in the library and for objects other than the school building and nature. Take pictures of them. Later, the images are transferred to a computer. Looking for a suitable environment for creating information material. Prepare and form a summary. Present your work at the end of the school day. Homework form of the "STEAM Learning Planning and Implementation" training Throughout the day, students can ask teachers specific questions and explanations in order to perform their task well. List of materials, environments, and tools: Workbooks, Tablets for Imaging, Desktops, Tape Measures, Layout Publisher, Online Crossword Compilers, Photo Gallery Compilers.

### Detailed description:

- Students are divided into groups of three based on class (cut-out postcards, sweets, electronic means may be used to divide them into groups).
- Groups of 8th grade students can prepare a workbook for an insect magazine. Each group draws a different group of insects (insect beetles, butterflies, double-winged, film-winged, target-winged)
- Groups of 9th grade students will be able to compile information material for calculating the areas and volumes of different planar and three-dimensional bodies.
- The groups are given time to read the manual and ask teachers questions if necessary.
- After reading the work instructions, each group prepares a daily schedule.
- The groups perform the tasks of the work guide by searching for material, taking pictures in the school building and / or outdoors, and taking the necessary measurements.
- Compilation of information material / magazine.
- Presenting

### Goals:

- Revise
- To improve and consolidate digital skills for searching, using environments, and taking photos.
- Developing cooperation skill
- Performing

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### Assessment:

- After the presentation of the work, the teachers give oral feedback to each group.
- Before starting the work, each subject teacher explains which part of the work is assessed and on the basis of which criteria. Reflection and suggestions for the facilitator:
  - Students who do not want to work in a group or for whom it is not suitable can be instructed individually.
  - The work instructions can be introduced to the students on the previous school day.

Example of work instructions:

### **WORK INSTRUCTIONS for making an insect journal.**

The task of the group is to prepare a journal about (a group of insects). Read the manual carefully. Contact the teachers if you have any questions.

- Create an estimated schedule for yourself to complete the work. Search the internet, the library for materials and pictures of the corresponding insect per group.
- Look for those insects described by your group in nature around the school and photograph them if possible.
- Create a magazine with the Publisher program (you can also use any other layout program you are familiar with).

The journal must include:

- o Description of this group of insects (living conditions, size, colors, etc.);
- o Interviews with one representative of this species;
- o Pictures;
- o Your experience(s) with this group;
- o Crossword about this group (use any online tool familiar to you);
- o Add images and illustrations to your magazine;
- o Interesting facts about this species, etc you are the editors of the magazine.

A magazine has a front page, table of contents, editorial, etc. (examine magazines in the library).

Presentation

Author: Piret Viil