

LESSON PLAN – CODING WITH GEOGRAPHY

Teacher: Siana Vasileva

School subject: Geography

Grade: 7th grade

Topic: Let`s exploare the area where we live

Type of lesson: a lesson for new knowledge

Form of training: mandatory preparation

Type of school: innovative primary school

Technical and software conditions for the lesson:

Necessary:

- Computers, laptops, tablets, phones
- Internet access
- Google maps
- QR code generator
- Online platform - Teams

Didactical Materials which are needed for the lesson:

- Presentations with the aims of the lesson
- Pattern/ template/ model of online lesson
- **Basic knowledge and skills:**

Assumptions - till this moment students should have learned the following knowledge and skills, because they will be used in the lesson.

- skills how to present
- skills to search information in the Internet
- Knowledge to find/search geographical coordinates
- Knowledge about landscape forms
- Knowledge how to indicate geographical location of objects

Main aim:

The main aim of the lesson: students form and learn how to use new information with new technology (online).

- Landform of the surroundings
- Mineral springs in the local area
- Conservation areas
- Protected natural monuments

Lesson plan

- Check missing/ absent students - 2 min
- Discussing the main aims of the lesson – 3 min
- Give instructions about how to share the screen and the results of the work – 5 min
- Give some information about the software and functions of the application with QR code, search and find geographical coordinates. Answering some questions, which are given – 5 min
- Every student works individually on his/her tasks. Check the finished work – 25 min
- Summarising and discussing about advantages and disadvantages of the app – 5 min

During the lesson:

The lesson starts in the platform “Teams” in virtual classroom. Every student use personal account and password. The preparation of the lesson starts with checking of microphones and cameras. Teacher gives some instructions about the work online and logging in different online platforms and different screens of the apps. There are rotation between “desk” activities and online activities.

Teacher shares the presentation with students and give some brief information with the aims of the lesson.

The class is separated into some groups according to the following signs / indications:

- Students, who work on/ through QR codes
- Students, who search the location of mineral springs with preset geographical coordinates
- Students, who search geographical coordinates on natural monuments.

Every student works individually on his/ her task. After they have finished the task, teacher checks the information. Then, students continue with the next task.

Students and teacher discuss all the time every task. If students have some questions, teacher gives them feedback.

Finally, class observe and revise the advantages and disadvantages of searching new information through QR codes and coordinates. The class comments/ give feedback of the passed lesson.

The lesson started with check information about the absent students and preparation for the lesson – turn on the computers, starting the apps and giving the tasks to the students.

Two of the students are working on the white/ electronic board. The other part of the class was separated to work in pairs. Teacher is giving some information to the students how it works the software and the app. Then she/he is setting the students their tasks. Children are working in pair, one is dictating, the other one is writing the coordinates in the app. Then, they change their roles. During this period, teacher is supporting and encouraging the students with questions and answers about the topic. When kids solve the first problem they receive another one.

In the last minutes in the lesson students and a teacher revise the advantages and disadvantages about the software and the app. They give feedback how is to work on the computer and how is to work on the paper. Students give their opinion about the works of their friends.