Scenarios for mathematical classes within the Erasmus + project

Scenario 2

Date: October 21, 2019

Topic: History of Cieszyn with mathematics in the background

Participants: Students in grades 5-8.

Objectives of the lesson:

• practicing reading comprehension skills,

• combining various fields of science: mathematics, history,

• use of various sources of information,

• processing skills of acquired messages,

• developing the ability to write numbers in the Roman system.

Description of the classes:

A group of students from grades 5b and 8b went on a sunny afternoon on a trip around our city to solve a few mathematical and historical problems.

The students had two tasks to do. First, they were to solve the Quest concerning the Cieszyn Piasts. They started their journey from the Well of Three Brothers, the place where the history of our Cieszyn begins. Then they followed the trail of our monuments: along Przykopą Street to the Castle Hill, further to Książnica, along Mennicza Street, Stary Targ, ul. Bożnicza to Londzina Square, to finish your trip on the Cieszyn market square.

In each visited place, students had a mathematical and historical task to solve. Their job was to read the Quest clues carefully, and then tie the information together in a password. The second task was to prove that Roman numbers are still part of our lives and find as much information as possible just written in the Roman system. During the one and a half hour trip around the city they know, the participants could look at his stories in a different version, searching for information for questions

from the quest, which turned out to be not as obvious as it seemed at the very beginning. The journey of our daredevils ended after receiving the password in the last place of their historical journey. With this slogan, the students went to the tourist information on the town square to find the treasure.

Course of classes:

1. Students gather in front of the school. They go to the city center, go to the Well of the Three Brothers.

2. The teacher gives the students a math-historical quest about our city.

3. A group of students follows the trail of our monuments in accordance with the instructions of the Quest.

4. The students write down all the hints and information and finally collect it in the form of a password.

5. During the journey, the students pay special attention to Roman numbers, which are still present in our lives. They find Roman dates on the buildings and boards and read them in the presence of the teacher.

6. With the slogan, the students went to the tourist information in the town square to find the treasure. The treasures were regional souvenirs - pens, mugs with the Cieszyn logo.

Password: Amore et non dolore (translation: love and pain)