Scenarios for mathematical classes within the Erasmus + project

DECEMBER

Date: December 11, 2019

Topic: Planning a trip.

Participants: Students in grades 5.

Objectives of the lesson:

• developing the ability to predict, plan, draw conclusions,

• the ability to use various sources of information, information selection,

• showing the practical side of learning mathematics,

• motivating students to acquire knowledge and take creative actions by looking for strategies, eliminating unnecessary steps, asking questions, creating ideas,

• practicing accounting skills,

Description of the classes:

The first point of our classes was a visit to one of the Cieszyn travel agencies to gather information on planning a trip to Estonia. Students made a list of questions to obtain detailed information on the choice of means of transport, costs, food, visiting interesting places. After returning to school, students in groups of two created calculations (expenses budget) related to the trip to Vosu. The task of the children was to work out and calculate the travel costs (travel time, transport, meals, visiting Tallinn, expenses for souvenirs). Students used various sources of information: the Internet, travel agency catalogs. Then they created a multimedia presentation about the country that is Estonia. They included information in the presentation

about the country's location, the language spoken, the local time, population, monuments, interesting places, traditional Estonian dishes. They also described the place we are going to.

Course of classes:

1. A visit to a travel agency to gather information on planning a trip to Estonia.

During this visit, the students asked the following questions:

• What is the best means of transport to get to Estonia? In what part of Europe is this city located?

• By what means of transport will the journey be the cheapest?

• How long is the flight and how long is the bus journey?

• What means of transport will the journey be more convenient and shorter?

• If we fly by plane, what city is the airport in?

• Are the food costs included in the travel offer?

• What is worth visiting in Estonia?

2. After returning to school, students work in groups of two. They are to answer a few questions:

• Find on our school website which countries we cooperate with within the Erasmus + project. List them.

• Write to which country we are going to in May 2020. What is this town?

• How to get to this country? What means of transport? How long does the trip take?

• Calculate the distance from Cieszyn to this town (use the Google map).

3. Students create calculations (budget for expenses) related to the trip to Vosu. The task of the children was to work out and calculate travel costs (travel time, transport, meals, visiting Tallinn, expenses for souvenirs).

The rules:

Each group has 15,000 PLN at its disposal. We are planning a week trip to Estonia.

The costs of the trip should include:

• Means of transportation (eg car or plane) for members of the entire group.

• Gala dinner for your group in a selected Estonian restaurant (if the prices are given in euro, then use € 1 = PLN 4).

• A trip from Vos to Tallinn (calculate the distance and cost of transport - assume PLN 3 for 1 km of the traveled route).

• Pocket money.

• Souvenir expenses.

After calculating the expenses, calculate how much money you have left, give interesting ideas on what the money can be spent on.

Sample calculation of students (photo)

4. Students prepare a multimedia presentation about Estonia on the basis of various sources of information (catalogs from a travel agency, Internet).

The presentation should include:

• information about the country (language, currency, valid time, population),

• information about the city to which we are going,

• information about interesting monuments and places,

• information about traditional meals in this country.

Links to tasks:

<https://learningapps.org/watch?v=ptfxfvy4521>

<https://learningapps.org/watch?v=pqu5d88hk21>

<https://learningapps.org/watch?v=po63n8ku521>

<https://learningapps.org/watch?v=ppvgh7yek21>

<https://learningapps.org/watch?v=ptyb9h4x321>

<https://learningapps.org/watch?v=pspu702m221>

<https://learningapps.org/watch?v=ppbmu9gsc21>

<https://learningapps.org/watch?v=pd2npwthj21>

<https://learningapps.org/watch?v=pkinhrecc21>