



re-use re-duce re-cycle

What is this about?

The entire schedule adopts an ecological perspective, emphasizing actions related to recycling, reducing, and reusing both objects and buildings, with a particular focus on Stara Papiernia. It highlights the current treatment of our planet and explores methods for making it more environmentally friendly. The tasks encompass a range of topics that align with the core curriculum, enabling participants to simultaneously address academic subjects and contribute to saving our planet. The overall objective is to examine existing efforts and identify ways to enhance our environmental impact, specifically in regard to pollution.

	topic	school subject	elements of exercise
Point 1 mathematical recycling	Recycling using mathematics	Mathematics	Students show their skills in mathematical exercises that are associated with recycling
Point 2 geo reuse	Reuse associated with geography	Geography	Students will have to watch a series of short clips from QR codes about worldwide recycling and answer questions
Point 3 Reuse of old buildings	Learn about Stara Papiernia	English	Students have to read the text about Stara Papiernia and complete exercise one with information from the text. Students have to interview 3 people. Students have to write down 5 things they have learned.
Point 4 Polreuse	Polreuse	Polish	Students have to do a task in Polish and write a text about an imaginary meeting with Lady Gaga in Stara Papierania
Point 5 Global crisis	Global crisis with biology	Biology	Students have to give ideas about how to prevent the problem of people lacking drinkable water. Students have to compare tap water with water from a lake / river.

TIME	MEANS OF TRANSPORTS	DISTANCE	ACCESSORIES	GROUPS
2 hours	walking	about 2 km	pen, pad, phone with internet acces, beakers, tubes (2 per group) and ph stripes	4-5 studens per group



Coordinates

Point 1	52.10099, 21.12744° E
Point 2	52.0979, 21.12731° E
Point 3	52.091227, 21.121903
Point 4	52.091227, 21.121903
Point 5	52.091227, 21.121903



Summary

- 1-3 Instructions for the teacher
- 4-11 Materials for the students
- 4 Point 1 - Recycling using mathematics
- 5 Point 2 - Reuse associated with geography
- 6 Point 3 - Learn about Stara Papiernia
- 8 Point 4 - Polreuse
- 10 Point 5 - Global crisis with biology

INSTRUCTIONS FOR THE TEACHER

The main point of these Edumapa is Stara Papiernia, where most of the tasks are going to be performed.

You can reach Stara Papiernia by bus 251 or 710.

This itinerary is prepared to be done fully in English, except for Point 4 that has to be done in Polish.

Students should bring with them printed worksheets, pads, pens, phones with internet access, beakers, tubes and ph stripes.

HAVE FUN SAVING THE PLANET!!!

Po wycieczce prześlij nam
krótką opinię na temat
przeprowadzonych zajęć.
Dziękujemy!





Point 1. Mathematical recycling

Excerise 1

Calculate the amount of waste that can be saved through recycling: imagine that you throw out 5 plastic bottles every day. Calculate how many bottles you would throw out in a week, in a month and a year if there were no recycling (assuming that the amount of bottles going to recycling is 40%). You can also determine how many bottles can be saved through recycling.

Excerise 2

How can we use mathematics to understand the impact of recycling on the environment? Justify your answer.



Point 2. Geo reuse

Excercise 1



What is recycling and why is it important for our planet?

<https://youtu.be/IsAg-JqJnA8>



Excercise 2

What types of materials are recycled and which ones are not?

<https://youtu.be/IsAg-JqJnA8>



Excercise 3

Which countries are leaders in recycling and why?

<https://envirotecmagazine.com/2022/03/18/global-waste-index-2022-ranking-highlights-leaders-and-laggards/>



Excercise 4

Why do you think "Stara Papiernia" is located next to the river?



Point 3. Reuse of old buildings

THE REUSED PAPER FACTORY



Read the text and complete the exercises.

Stara Papiernia Shopping Center dates back to the 18th century. In 1760, the first paper mill in Mazovia was established in the present area of the city center. The plant was called Królewska Fabryka Papieru, and one of its regular customers was King Stanisław August Poniatowski. On the paper from this factory were written documents of the Four-Year Parliament and the Constitution of May 3rd. In the 1830's, a new building was erected in the existing plant and the water supply system was modernized. A canal supplying the water wheel was led from the Jeziorka river. The canal still exists today, and a picturesque wooden terrace runs along it.

Excerise 1

When was Stara Papiernia founded?

Who was a regular customer there?

When was the first paper mill established?

What documents were written on the paper?

What happened to the water supply system in the 1830's?



Exercise 2

Interview 3 people about what they like and don't like about Stara Papiernia. Record the conversations and write down what they have said.

Exercise 3

Write down the 5 most important things about Stara Papiernia that you remember from the previous exercises:







Point 4. Pol reuse

Excerise 1

Write a sentence in Polish about how to change "Stara Papiernia" to be more eco.

Excerise 2

Odmień przez przypadki słowo 'ekologia' i 'stara papiernia'.

M.
D.
C.
B.
N.
M.
W.

M.
D.
C.
B.
N.
M.
W.

Excerise 3

Odmień przez liczby słowo "recyklinguję".

LICZBA POJEDYNCZA
1.
2.
3.

LICZBA MNOGA
1.
2.
3.



Excerise 3

Get tap water in the beaker tube and also get water from the river and with the pH stripes compare them. Write down your conclusions based on the results.
