



SCENARIO

Title: Water in North & South America

1. Content knowledge:

- students develop the curiosity about the world,
- students can name the most important rivers and lakes in North and South America (names in three languages: Polish, English and Spanish),
- students can find necessary information using modern technology,
- students can calculate the actual distance between some places on the map when the scale distance is given but they can also calculate the scale distance when the actual distance is given,
- students can do some math based on the concept of scale,

2. Methodology:

- individual work,
- work in pairs,
- work in groups- sharing the knowledge, students with non special needs are helping students with special needs.

3. Technology:

- the Internet,
- smartphones,
- laptop computers,
- interactive board.

4. Time:

- 1 lesson- 45 minutes.

5. Target group:

- 14 - year-old students, middle school.

6. Resources needed:

- <https://kahoot.com>
<https://play.kahoot.it/#/?quizId=e50f2e0d-c6b5-4c4c-a6b7-e88f8d1c4597>
- <https://learningapps.org>
<https://learningapps.org/4933581>
<https://learningapps.org/4916184>
- <http://mapykonturowe.com.pl>

7. Aims to be accomplished:

- critical thinking,
- collaborating,
- media literacy,
- technology literacy,
- social skills,
- leadership,
- flexibility.

8. Evaluation:

- using Kahoot application to evaluate students' knowledge acquired on the lesson (names of oceans, rivers, lakes in North and South America, doing math based on the concept of scale).
<https://kahoot.com>

9. Didactic sequence:

- **Saying 'hello'**. The English teacher, Spanish teacher and Math teacher say '**hello**' to the students **in three languages: English, Spanish** as well as **Polish** and write down the subject of the lesson on the board *Water in North and South America*. The whole lesson is conducted in three languages: English, Polish and Spanish.
- **Work in groups**. Students are **divided into four groups** of four students. Two groups are **given printed contour maps of North America** and two other groups are provided with printed contour maps of **South America**. Students are supposed to **draw and name oceans around Americas**, the most important and longest **rivers** as well as the biggest, deepest **lakes** in both continents (using **the Internet on smart phones**, time limit: 10 minutes).

- **Presentation.** One student in each group (the so called captain of the group) **presents the collaborative work of their group**- shows the contour map and discuss oceans, rivers and lakes in North or South America. Students can speak either English or Spanish.
- **Online activities.** Students do **two activities on learningapps.com** created previously by their teachers to learn more about water (oceans, river and lakes) in North and South America (working on laptop computers or smart phones) <https://learningapps.org>
- **Math.** Students do some math. They work in pairs. They are supposed to find the length of the Colorado River and next calculate its length on a map on the scale 1: 200 000.
- **Summary: online quiz.** Students play Kahoot (activity previously created by the teacher) to sum up the lesson and do self-evaluation (using smart phones) <https://kahoot.com>
- **Sying 'goodbye'.** Teachers say 'goodbye' to students in three languages: Polish, Spanish and English.

Adapting lesson to students with special needs:

- students with special needs are allowed to the activities on *learningapps.org* on laptop computers or interactive board (with the help of teachers) if they do not have smart phones,
- students with special needs are doing the math adapted to their abilities,
Mathematical task for students with special needs.

Look at the table and do the following tasks.

1. Write down the name of the longest river.
2. Write down the name of the shortest river.
3. How many kilometers is the Colorado River longer than the Hudson River?
4. Which rivers are longer than 3700 km?

Rivers in North America

river	length (km)
Liard	1200
South Nahanni	563
Missisipi	3778

Missouri	3727
Jukon	3180
Colorado	1438
Jukon	3180
Hudson	492

- students with special needs do not have to play Kahoot on their own but with other students in pairs.

10. Conclusions:

- students have acquired the knowledge of rivers and lakes in North America and South America in three languages: Polish, English and Spanish,
- students have been able to do some math based on the concept of scale,
- students have taken various quizzes (on learningapps.org and kahoot.com) to do develop their knowledge and do self-evaluation,
- students have enjoyed the uniqueness of the lesson a lot (the lesson has had the elements of 5 subjects: Polish, English, Spanish, Math, Geography).

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