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TEACHING ACTIVITY PROJECT

Educational establishment: Secondary School "Friedrich Schiller"
Teacher: Menyhart Zoltan
Grade: 5th
Discipline: Geography
Lesson: *Flowing waters - practical applications*
Type of lesson: mixed:
Skills and practical skills training lesson
Lesson on the formation of intellectual skills and abilities
Aim of the lesson:

SPECIFIC SKILLS:
1.2. Description of geographical features, phenomena or processes observed directly or indirectly
2.3. Reading simple graphs and maps
4.2. Sorting geographical features according to certain criteria

OPERATIONAL SKILLS:

Cognitive skills:
1. Define the terms spring, collector river, tributary, watershed, mouth, watershed.
2. Identify the elements of the catchment on the map

Methodological skills:
1. Identify and number tributaries of different grades
2. Prioritise tributaries according to a clear criterion
3. Map the watershed of a river basin

TEACHING STRATEGIES:

a) METHODS AND METHODS: algorithmisation, description, modelling, comparison, map work, group work.

b) MATERIAL RESOURCES:
- Computer, Paint program
- Work file: Digitised map of the Romanian water network ; manual.
- Physical map of Romania,

c) FORMS OF ORGANISATION: synchronous, computer-based, directed, individual

EVALUATION/ FEEDBACK TOOLS: worksheet (Digitized **processed** map of the Romanian river network) .

Stages of the activity:

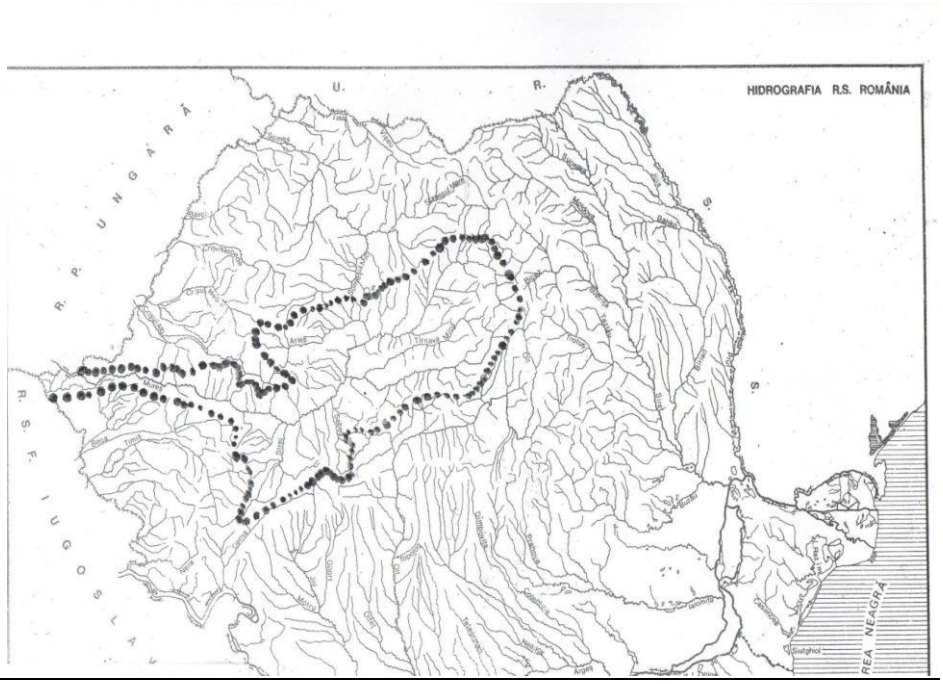
1. In order to capture attention, the teacher asks a few questions: *who can show me on the map the source and the Mures river?*

- Show what its main tributaries are!

- What about Grade II tributaries? What does that mean?

- Can you delineate the Mures river basin?

2. Presentation of the working procedure:



The teacher marks out this watershed on a sheet of paper on the computer using **Paint**, then asks the students questions:

- I wonder why I drew the line here?

- Why is the Nirajul considered a grade I tributary of the Mures?

3. Presentation of work tasks:

- On your map/computer, mark out the Siret and Ji river basins and then show this sheet.

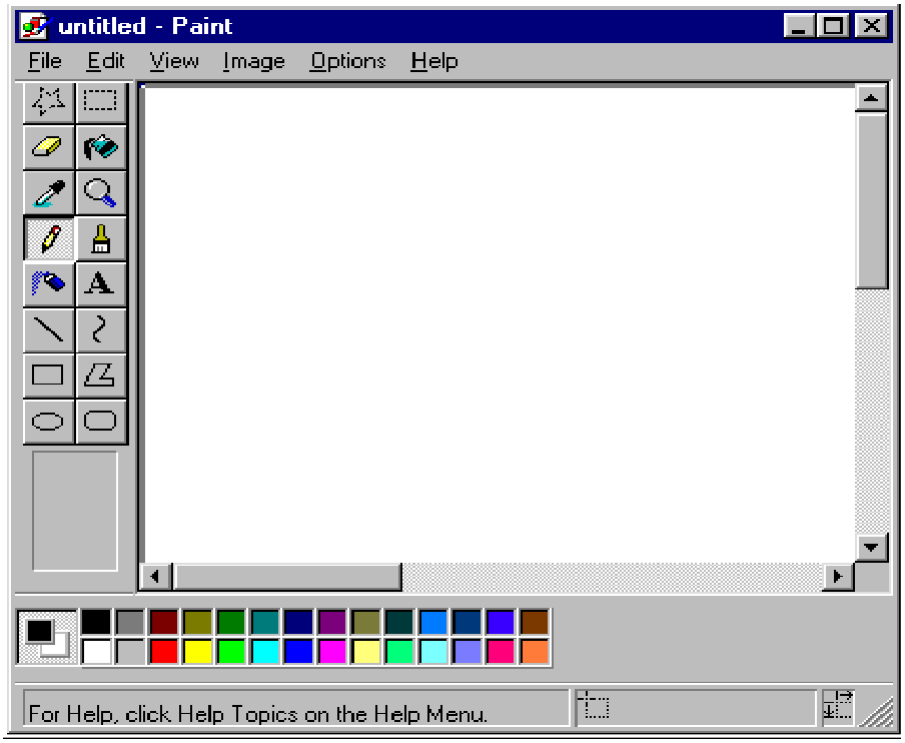
Process description:

We open the map in ***Paint*****,** a simple program, with which you can draw and/or write on a graphic support: map, photo or image. By clicking on the ***pencil*** or ***brush*** symbol, we can draw in the desired colour what we want, in this case the water table. Any errors can be erased by activating the **eraser** symbol**.**

The teacher states the **basic rule:**

- If I draw the watershed of a watershed on a topographic map, then I start the line at the mouth and join the highest points between the two watersheds.

Paint window:



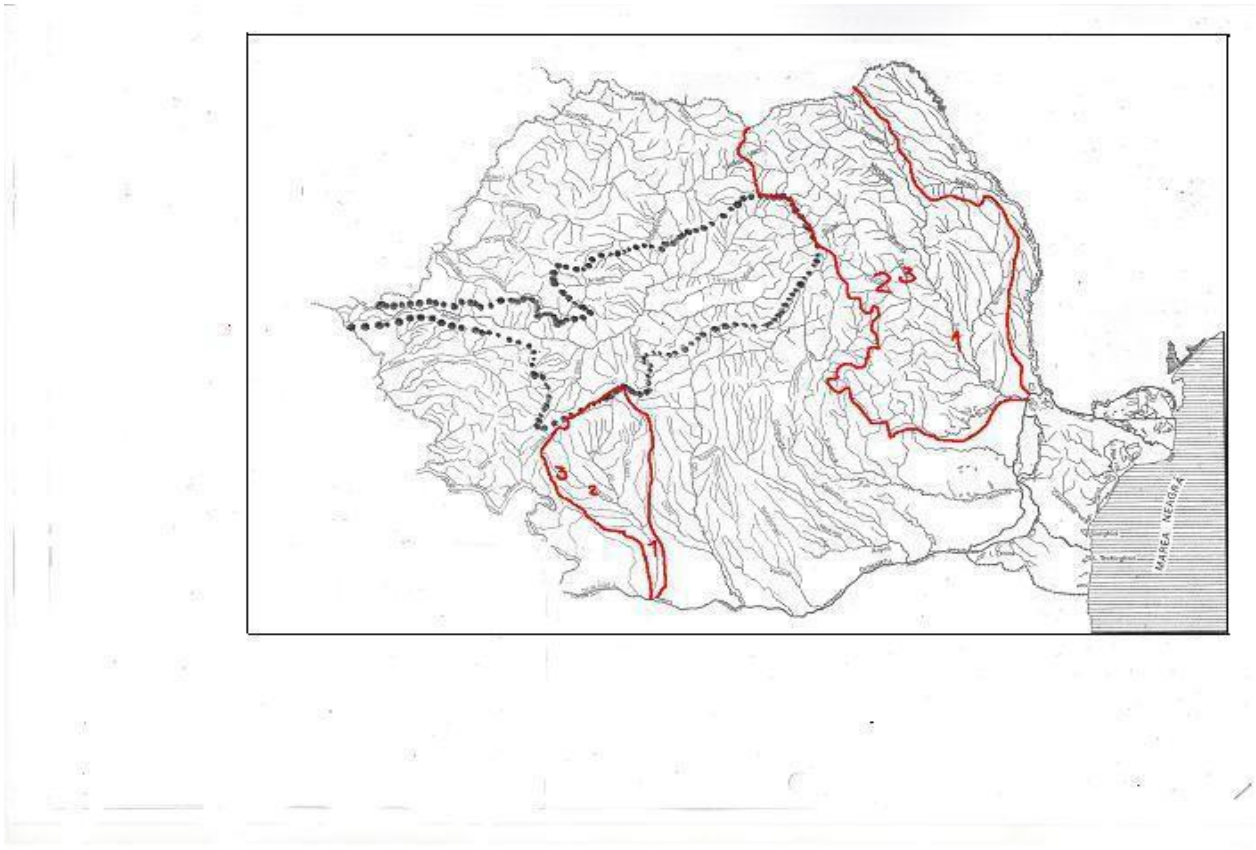
- By clicking on the ***pencil*** or ***brush*** symbol, you can draw certain lines, for example **the water line**.
- Errors are erased by activating the **eraser** symbol**.**

- Mark the **main stream** and rank **the tributaries** by activating the ***text*** box**,** then positioning the mouse over the chosen stream, followed by typing the number 1, 2, 3 etc. in the box that opens.

We recommend choosing bright colours from the palette on the left of the image.

4. Solving tasks:

Each student will open the Paint program, receive a sheet with a map of *Romania's hydrographic network, and* then go through the steps presented above. Students will work in pairs, cooperating and solving problems together.



5. Fixing and feedback:

- delineation of another river basin or sub-basin

- students define specific terms: *watershed*, *watershed, grade I, II tributaries, etc.*

- each student **saves** the processed maps in a personalised file on the computer, these will be the tools for feedback, evaluation and marking.