NAME OF THE ACTIVITY: PROBLEM-SOLVING EXPLORATION

Activity nr: 4 / Flipped Classroom

Content	Skills	Competencies
Flipped Classroom	*Active recall, question formulation, memory, public speaking*	*team working, cooperative learning, creativity, analysing, critical thinking*

Activity Overview

PROBLEM-SOLVING EXPLORATION	
General Description	*Present students with a set of complex problems that require multiple steps to solve.* *Pair up students and ask one student to be the problem solver, who explains their thought process in developing a solution based on what was learned out of class.* *The partner listens to this process and offers suggestions if there are difficulties, or expresses confusion should there be parts that are difficult to understand.* *After the first problem has been solved, ask the students to switch roles and begin again.*
Materials	Individual pieces for documentation (sheets of paper; virtual desktop) Individual tools for documentation/writing/drawing (physical or virtual pens, markers, brushes)
Duration	*Example: 30-60 minutes*
Feasibility	*The activity is feasible for group and/or individual implementation. Students can both individually and collaboratively write down, classify and map the ideas related to their learning objectives.*

Activity

1. **Pre-Class:** Individually, students study the provided material (can apply for all information mediums: written, video, audio, practical)

2. **Pre-Class:** Individually, a student is presented with a set of problems that require multiple steps to resolve. The student can decide which problem to solve and then actually solve it. After that, the student should articulate their problem-solving process (approach, thoughts, actions)

3. **In-Class:** Collaboratively (groups of 2 to 5) present the problem they've solved and their problem-solving process.

4. **In-Class:** After the member presents their work, other parties from the group can ask questions, give suggestions, express and discuss possible confusion about things they may have not understood.

5. **In-Class:** Once the cycle described in steps 3 & 4 is complete another member of the group is to present their work; the process continues until every member of the group has presented their process and solutions.