

Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences

COMBINING TRADITIONAL AND CONTEMPORARY METHODS IN DIDACTIC AND METHODIC MODELING OF TEACHING

Dragana Jovanović University of Niš, Serbia

IMPROVEMENT OF PEDAGOGICAL AND METHODICAL COMPETENCIES OF TEACHERS / ASSOCIATES IN HIGHER EDUCATION INSTITUTIONS, Niš, December 20-24, 2021



TRADITIONAL TEACHING METHODS



INNOVATIVE TEACHING METHODS

MENTHOD OD MORPHOLOGICAL ANALYZIS

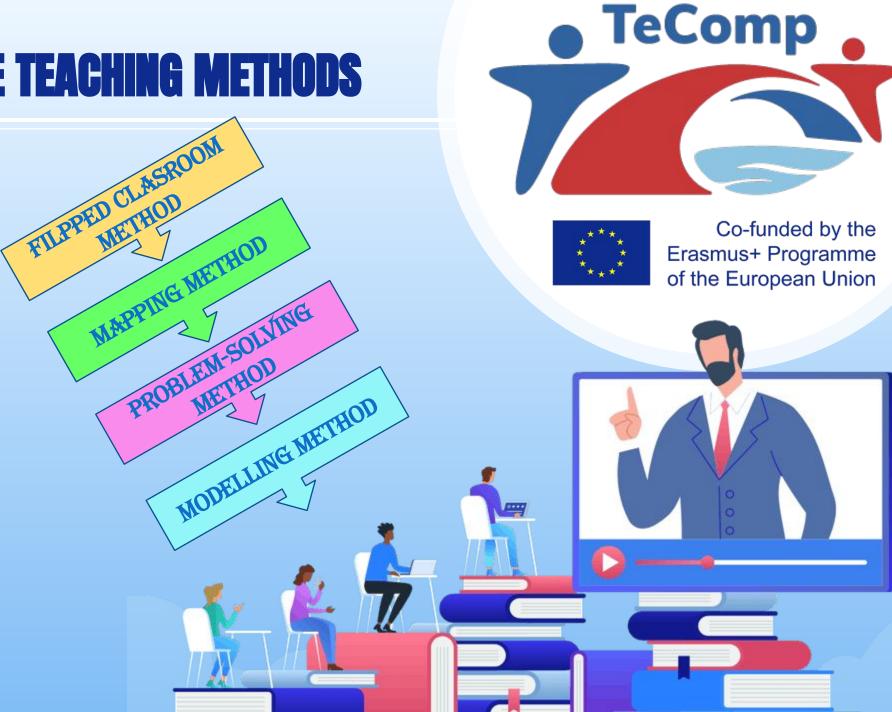
PROJECT METHOD

BRAIN-STORMING METHOD

UNIT METHOD

SNOWBALL METHOD

SIMULATION METHOD



IMPLEMENTATION OF PROBLEM-SOLVING METHOD IN TEACHING AND LEARNING



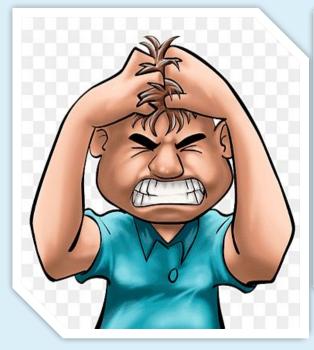
WARM-UP ACTIVITY - "PROBLEM" FOLLOW THE LINK BELOW:



https://ideaboardz.com/for/Problem-solving/4253005

FACE RECOGNITION INTRODUCTORY ACTIVITY





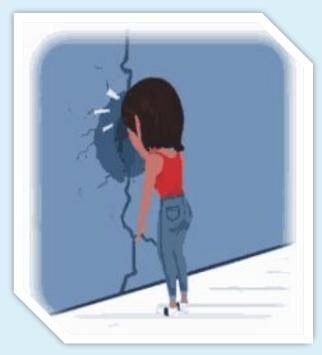




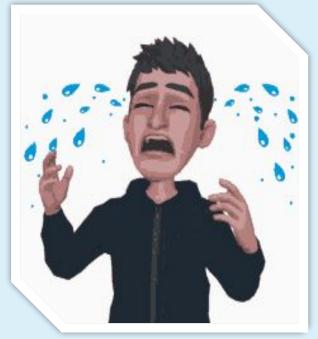


FACE RECOGNITION INTRODUCTORY ACTIVITY











FACE RECOGNITION INTRODUCTORY ACTIVITY











IT'S OK TO....





FEEL ANGER

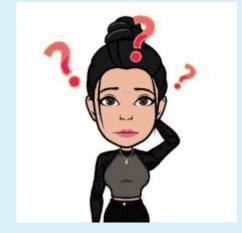


YELING



TRY TO FIGURE OUT AGAIN





BE SUSPICIOUS



BE CURIOUS



BE CHALLENGED



STRUGGLE



FEEL TRAPPED



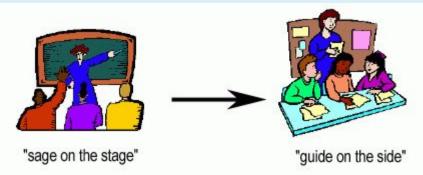
FEEL MISUNDERSTOOD

Psychological, epistemological and TeComp Co-funded by the didactic values of problem solving of the European Union

STUDENTS

Problem = dilemma/obstacle

- investment of efforts in overcoming barriers
- step by step in finding solution
- learning how to behave in new situations
- developing independence
- building enthusiasm
- influencing confidence
- improving sexted learning





TASK FOR PARTICIPANTS



"FIND THE SOLUTION" EDUCATIVE CLIP

CAREFULLY LOOK TO A GIVEN VIDEO AND TRY TO FIND THE SOLUTION

https://www.youtube.com/watch?v=BgLEO_mW3X0

TeComp E



STAGES IN PROBLEM SOLVING

CAUSES OF THE PROOF

DEVELOP ALTERNATIVE SOLUTIONS

SELECT A SOLUTIO

SOLUTION SOLUTION

EVALUATE THE OVERCOME

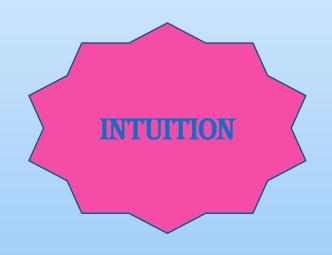




PROCEDURES IN PROBLEM SOLVING

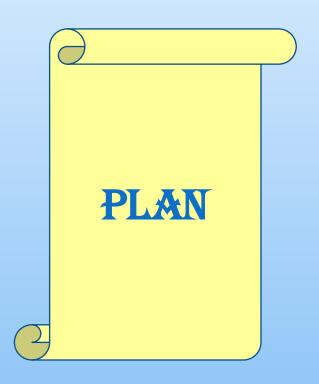


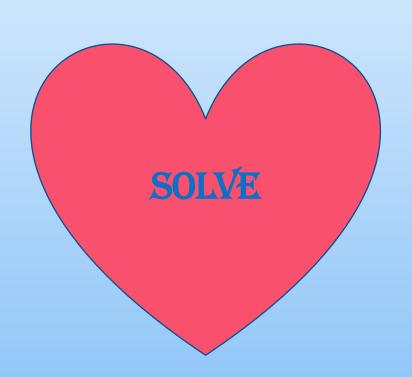


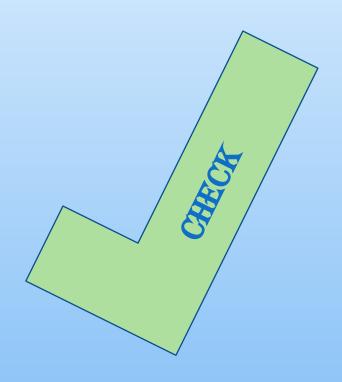




GUIDELINES IN PROBLEM SOLVING







SOLUTION OF THE TASK



"FIND THE SOLUTION" - PART 2 EDUCATIVE CLIP

CAREFULLY LOOK TO A GIVEN VIDEO TO TEST YOUR SOLUTION

https://www.youtube.com/watch?v=X3COVU75VbA



THANK YOU FOR YOUR COOPERATION

