STIMULATING STUDENTS’ MOTIVATION TO LEARN SCIENCE

CINTIA ST. COLIBABA, IRINA E. L. GHEORGHIU, ANCA COLIBABA
The Goerudio project aim

a learning community of European teachers and students

To stimulate students’ motivation to learn science

To analyse the teaching and learning of scientific issues and experiences

To identify and understand the main difficulties encountered when learning or teaching science

To share their most effective experiences and promote an inquiry based, interactive and amusing approach to the understanding of science
The Goerudio project research

Goerudio project target groups
35 schools from seven countries
70 teachers
100 students
Research methodology

based on the observations gathered from comments posted by the project participants (teachers and students).

Teachers:
problems when teaching
solutions and methods used to overcome them and stimulate students’ interest in science

Students:
difficulties in learning science
achievements and give the reasons for their achievements
Students’ posts on their problems and achievements while learning science

Students related their problems to

- Teacher’s performance: 54%
- Lack of equipment: 25%
- Students’ attendance and participation: 13%
- Textbooks: 8%
Teacher’s performance:

- Voice: 25%
- Strictness and lenience: 10%
- Enthusiasm: 15%
- Personality: 5%
- Teaching techniques: 20%
- Communication skills: 10%
- Patience: 5%
- Language used: 5%
- General attitude towards the subject taught: 5%
Teachers’ posts on their problems when teaching science to students

- Lack of time: 20%
- Students not having basic knowledge: 35%
- Students’ inability to link science with life: 15%
- Students’ lack of autonomy and learning skills: 10%
- Lack of appropriate teaching aids and laboratories: 10%
- Excessive number of students in a class: 10%
Students’ solutions

- Experiments: 39%
- Use of ICT: 16%
- Working in groups: 8%
- Field trips: 4%
- Games: 33%
- Science clubs: 4%
Teachers’ solutions

- Experiments: 41%
- ICT: 31%
- Teamwork: 15%
- Games: 6%
- Creative solutions: 4%
- Field trips: 3%
Conclusions

Learning community of European teachers and students
Combination between traditional and state-of-the-art techniques
Link between theory and practice
THANK YOU!