

DIDACTIC PLAN

Europagymnasium Bitterfeld
Workshop Week 24.10.-28.10.2016

WORKSHOP, SEMINAR or SESSION TITLE:

Computer Workshop

AIMS:

- Communication in the modern world relies on modern communication technology like mobile phones and computers. Without them, modern communication is unthinkable.
- The workshop should therefore enable the students to have at least an idea of how computers work, how they are built from the inside and how to make some basic repairs themselves.
- Also, skills like team work, self-confidence, self-reliance and mechanical skills are strengthened.

CONTENTS:

- Theory: presentation about the basic components of a modern computer.
- Practical part: assembling all separate components to a working computer.

ACTIVITIES:

- A presentation was given about the basic components of a modern computer and what a CPU does when calculating.
- After that the students were given the task to reassemble a computer from scratch: all components have been separated and should be put together again in a correct way.
- This was done in two groups (10 students each) with the help of two instructors (one student, one teacher) who explained each step and then asked one student to execute the explanation.
- In the end the computer was connected to a display and keyboard to validate its functionality and to give the students an experience of success.

TIMING:

1 hour (15 min. presentation, 45 min building)
(20 students (Spain, Finland, Italy, Germany))

Material:

beamer, laptop, two older computers (taken apart into separate components), screwdrivers, thermal conductance paste