

T3_25 TO USE THE COMPUTER – A BETTER WAY TO UNDERSTAND PHYSICS

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Physics laboratory has for a long time now been an important part of school physics education. In last time, the technique and technologies devices know an explosive development and pupils, students are fascinated by this. In this context, the audio – video tools have an important impact for the teaching – learning process of Physics. It is most important the role and contribution of Multimedia to teaching/ learning of specific physics topics and integrated MM activities in school work, in home-work and in distance learning. The Computer Assisted Instruction stimulates the visual hearing memory and transposes the students in the midst of the Phenomena. In future, it is a project that the manuals to be an electronic format and every student have a little laptop. They can complete learn physics on the computers, they can simulate virtual the experiments on the computers, or they can to see a films with experiments. The electronic manual can complete thirst for knowledge. In this manner it can realize an interdisciplinary and transdisciplinary learning; it can realize an interactive learning. The training films or the lessons on the computer are the most representative. The realism of dynamical pictures, the video joined with the sound and the motion, the possibility to recreate the physical reality with digital technique make the didactical movie the most important teaching tools. The movie must integrate in the class, as teaching tools and not as an intention. It will be used in a special stage of the lesson, or of the experiments, according to the logical structure or the strategies involved. It is significant to use the computer resources in the physics laboratory. In firs parts, we explained why important to used simulated experiment, graphics on computer, is and that is the impact to use the modern tools. In the second part, it is presented the modern tools and classified it. In succeed step, we propose a Delineate of the lesson plan and we are illustrated how the teacher can by integrated audio – video tools on instruction in diverse stage of unit by learn.