

Results by EU Project SECURE research on the use of computer in Italian compulsory schools

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Abstract: In the framework of the European SECURE project (Science Education CURriculum REsearch), aimed to investigate the curricular proposal of 10 European Countries as concern Mathematics Science and Technology (MST), in Italy, a particular analysis was done as concern the use computer and multimedia tools in kindergarten, primary and lower secondary schools. The analysis of the curriculum was performed at three levels looking at: 1) the official documents, 2) the teachers implementation and their direct in-class experiences and 3) the pupils perceptions of those subjects. Nine core elements are explored among all of those three levels: aims and objectives, contents, learning activities, teacher roles, materials and resources, grouping, location, time and assessment. Data from teachers and pupils are collected by means multiple choice questionnaires and semi-structured interviews in which are explored the ways in which the teachers apply and reconstruct the national indication in their schools and how the pupils perceived the curricular proposal that are offered to them. The analysis of those data allows reconstructing the actual situation of the Italian schools and to highlight which are the main need and expectation of all of the subject involved in particular as concern use of computer in the MST subject (how often and in which ways) and how multimedia materials are used during the learning activities.