

MATHEMATICAL MODELLING: THE INTERACTION OF CULTURE AND PRACTICE

ABSTRACT. Using a sociocultural approach we analyse the results of a Mexican/British project which investigated the ways in which mathematics is used in the practice of school science and the role of spreadsheets as a mathematical modelling tool. After discussing the different school cultures experienced by two groups of pre-university 16–18 year old students we analyse how these different cultures influenced their practice of mathematics, as well as their work with mathematical spreadsheet modelling activities. There were clear differences between the two groups of students in their preference for external representations, in their understanding of the kind of answers they were expected to produce and in the way they conceived the role of mathematics in the practice of science. Although students' preferences for a particular representation were not significantly modified by the use of a spreadsheet as a modelling resource, at the end of the study the students recognised the value of using a more diverse set of representations. The results obtained suggest the possibility of enhancing students' capability to shift between a wider range of representations, including graphical, algebraic and numeric ones, using a modelling approach embedded in a computer environment such as a spreadsheet.

1. INTRODUCTION AND BACKGROUND

Mathematics provides one of the most powerful means of modelling and solving problems across a range of subjects in science and technology. Biology, chemistry and physics are all examples of subjects which make use of mathematical techniques to model situations and solve problems. Many of the mathematical techniques involve the use of methods which are considered valuable because of their generalisability. But it is this potential generalisability which is being questioned by the culture and cognition research community (for example Lave, 1988; Rogoff and Lave, 1984). Whereas there have been a number of studies which have investigated the ways in which mathematics is used in everyday practices (for example, Nunes et al., 1993) there has been very little work taking a similar perspective with respect to school practices such as science. Whatever the reasons, many students who study science cannot readily use mathematical methods within science subject areas.



Mathematical Modelling In Educations And Culture

Annelies Wilder-Smith



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