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Teaching Mathematics: A Multidisciplinary Approach

Recent international evaluations have shown that, in general, high school Mexican students are unable to solve daily problems with their knowledge of mathematics, science, reading and writing skills. Although, the international mathematical community produces a great variety of excellent pedagogical resources to face this situation, most of these materials (but most important the focus), are inadequate to the average pupil. In this talk, I will argue that we need to approach this condition from the perspective of the humanities (especially history and philosophy), arts and the social sciences. Students will profit from understanding the problems intellectuals were attempting to solve and the meaning and connotation of the original concepts,

among other issues. Subconsciously, students will acquire a mathematical culture, even before the technical details are developed.

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