

MATHEMATICS COURSES CONTENT ANALYSIS AT THE INTERMEDIATE STAGE IN LIGHT OF THE REQUIREMENTS OF THE THIRD INTERNATIONAL STUDY OF SCIENCE AND MATHEMATICS (TIMSS)

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ABSTRACT_ The study aimed to build a list of the requirements of the international study of science and mathematics (TIMSS) needed to be available in mathematics courses of the intermediate stage in the areas of mathematical content, and to ascertain the extent to which these requirements of the international study (TIMSS) being incorporated in these courses in the area of mathematical content. To achieve the objectives set for the study the researcher reviewed relevant studies and on this basis he prepared a list of the requirements of the international study of science and mathematics (TIMSS) in mathematical content areas,. To determine the extent of incorporation of the requirements of the international study for science and mathematics in the mathematics courses at the intermediate stage, the researcher designed a tool to analyze the content, whose validity and reliability had been verified. Statistical treatments had been carried using arithmetic means, standard deviations, consistency among analysts. Most important results reached by the study were: The existence of variations (large, medium, weak, unrealized) in respect of the extent of the requirements of the international study (TIMSS) being incorporated in mathematics courses at the intermediate stage in the mathematical content. In the third intermediate grade the incorporation in the mathematical content area (geometry and data) at a medium degree; while in the second intermediate grade the incorporation in the areas: (numbers and algebra) was at a weak degree; and the area of (geometry) at a medium degree. In the third grade the incorporation in area (algebra and geometry) at a medium degree.