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以社會認知生涯理論探討影響選擇 數學職業意圖的因素

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摘要

本研究參考社會認知生涯理論的選擇模型與興趣模型，建立影響學生選擇數學職業意圖的因素結構關係模型圖，以 Trends in International Mathematics and Science Study (簡稱 TIMSS) 2003 年國中生資料驗證之，試圖探究影響國中學生在選擇數學職業意圖的因素。本研究發現，在社會認知生涯理論的興趣模型方面，「數學學習興趣」受「數學結果期待」、「數學自我效能」的直接影響，而「數學成就」則是產生間接影響；至於社會認知生涯理論的選擇模型方面，「選擇數學職業意圖」受「數學結果期待」、「數學學習興趣」的直接影響，而「數學成就」、「數學自我效能」則是產生間接影響。上述潛在結構並無性別差異存在。最後，本研究亦根據研究結果，提出在教育實務應用與未來繼續研究上的建議。

關鍵字：社會認知生涯理論、國際數學與科學教育成就趨勢調查、結構方程式模型、選擇職業意圖

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Investigating the Factors on Mathematics Career-Choice Intentions with the Social Cognitive Career Theory

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Abstract

The purpose of this study was to investigate impact factor on mathematics career-choice process used TIMSS dataset of Taiwan 8th grade students. The interest development model and career choice model of social cognitive career theory (SCCT) used to establish a latent variable model. The results showed, concerning interest development model, math outcome expectations & math self-efficacy had a direct effect on math learning interests but math achievement had an indirect effect on. As to career choice model, math outcome expectations & math learning interests had a direct effect on math career-choice intentions but math achievement & math self-efficacy had an indirect effect on. The above-mentioned hadn't sex differences in math career choice process. Finally, some conclusions and suggestions for practice applications and future researches were suggested and proposed.

Keywords: social cognitive career theory, TIMSS, structural equation modeling, career-choice intentions