

An Analysis of Modelling Process based on McLuhan's Media Theory: Focus on Constructions by Media in Cases of Using Geoboard

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The aim of this paper is to examine transitions between phases of a modelling process in cases of introduction of square root using paper and electric geoboard. The method is to analyse construction by media based on McLuhan's media theory (McLuhan, 1987; Tokitsu, 2012). As conclusions, the followings about the both cases are found; (1) transitions between phases of the modelling process are same *but* constructions by media are different, and (2) a new mathematical problem can be posed because of the constructions by media.

References

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- Tokitsu, K. (2011). The communication model in M.McLuhan's theory of media and its implication in education, *Departmental Bulletin Paper of Hiroshima Bunka Gakuen University*, 17, 25-34. (in Japanese)