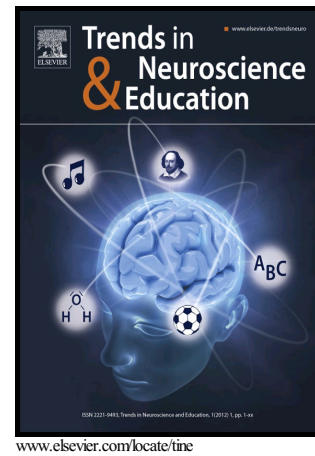


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Number line estimation under working memory load: dissociations between working memory subsystems

Sarit Ashkenazi, Shir Shapira



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Number line estimation under working memory load: dissociations between working memory subsystems

Sarit Ashkenazi*, Shir Shapira

Learning Disabilities, Seymour Fox School of Education, the Hebrew University of Jerusalem, Israel.

Author Note

*Correspondence should be addressed to Dr. Sarit Ashkenazi, Seymour Fox School of Education, the Hebrew University of Jerusalem, Mount Scopus, Jerusalem 91905, Room 469, 972-2-5882058, Email: sarit.ashkenazi@mail.huji.ac.il

Abstract

The preverbal representation of quantity has been shown to associate with space, as quantities are spatially mapped on a mental number line. One traditional method to test this association is the number line estimation task that asks participants to locate a number on a number line. However, current approaches suggest that number line estimation task performance involves verbally mediated strategies such as reliance on reference points, questioning the nature of the task as a measurement of pure quantitative or spatial skills. To resolve this conflict, in the current study participants performed the number line estimation task in three dual task conditions under phonological, spatial or visual working memory (WM) loads. We found that phonological WM load and spatial

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