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The relationship between visuospatial sketchpad capacity and children's mathematical skills

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Abstract

This study examined the association between visuospatial sketchpad (VSSP) capacity and children's mathematics attainment. The aim of the study was to explore age-related differences in the relationship between the visual and spatial memory subcomponents of the VSSP (Logie, 1995) and a range of mathematical skills. Fifty-one 7- to 8-year-old children participated in the study. The study measured VSSP capacity and children's mathematics skills. The results showed that VSSP capacity was significantly related to children's mathematics skills, in the younger age group. The relationship between VSSP capacity and mathematics skills was mediated by visual spatial memory skills. The results suggest that VSSP capacity is an important component of children's mathematics skills.

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