

Relationship Between Visual-Motor Integration, Eye-Hand Coordination, and Quality of Handwriting

MARIE-LAURE KAISER, PhD,¹ JEAN-MICHEL ALBARET, PhD,² AND PIERRE-ANDRÉ DOUDIN, PhD³

¹Occupational Therapy Department, University Hospital of Lausanne, Lausanne, Switzerland

²Department of Sports Sciences, University of Toulouse III, Toulouse, France

³Department of Psychology, University of Lausanne, Lausanne, Switzerland

If the influence of visual-motor integration (copying forms) on the quality of handwriting has been widely investigated, the influence of eye-hand coordination (tracing item) has been less well analyzed. The Concise Assessment Scale for Children's Handwriting (BHK), the Developmental Test of Visual Perception (DTVP-2), and the section "Manual Dexterity" of the Movement Assessment Battery for Children (M-ABC) were administered to a group of second grade children (N = 75; 8.1-year-olds). The association of visual-motor integration and eye-hand coordination are predictive of the quality of handwriting ($p < .001$). These two skills should be taken into consideration when children are referred to occupational therapy for difficulties in handwriting.

Keywords Visual motor coordination, motor skills, pediatrics, school

Children with non-proficient handwriting are often referred for occupational therapy (Cornhill & Case-Smith, 1996). Treatment varies according to the causes of non-proficient handwriting, which can result from inappropriate extrinsic factors such as bio-mechanical or environmental components (Rosenblum, Goldstand, & Parush, 2006) and/or from intrinsic factors such as poor performance in perceptual and motor skills (Feder & Majnemer, 2007). The relationship between perceptual-motor skills and handwriting has been investigated from two different but complementary theoretical frameworks: (1) the developmental perspective with regard to the question of readiness for handwriting (Beery, 1989) or to the identification of difficulties of handwriting and (2) the hierarchical model of motor control wherein visual and kinesthetic feedback information is required to perform handwriting (Maeland, 1992; Smits-Engelsman, Niemeijer, & Van Galen, 2001).

From these two theoretical frameworks, many studies have investigated the relationship between the quality of handwriting and visual-motor integration although no consensus concerning the definition of visual-motor integration exists. Beery (2004) defined it as the coordination between visual perception and movement of fingers, which is measured by a

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Address correspondence to Marie-Laure Kaiser, CHUV-NE 5035, Pierre-Decker Avenue 11, 1011 Lausanne, Switzerland. E-mail: mlkaiser@eesp.ch

Relationship Between Visual Motor Integration And Handwriting

Susana Araújo, Tânia Fernandes, Urs Maurer



Relationship Between Visual Motor Integration And Handwriting:

The Enigmatic Realm of **Relationship Between Visual Motor Integration And Handwriting**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Relationship Between Visual Motor Integration And Handwriting** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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Relationship Between Visual Motor Integration And Handwriting Introduction

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