

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

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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

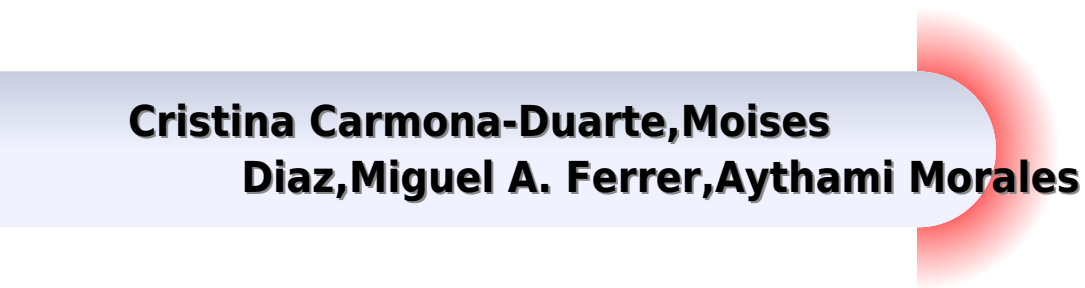
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Relationship Between Visual Motor Integration And Handwriting

**Cristina Carmona-Duarte, Moises
Diaz, Miguel A. Ferrer, Aythami Morales**



Relationship Between Visual Motor Integration And Handwriting:

Hand Function in the Child Anne Henderson, PhD, OTR, Charlane Pehoski, 2005-09-29 This comprehensive resource and clinical guide for students and practicing pediatric therapists features current information on the neurological foundations of hand skills the development of hand skills and intervention with children who have problems related to hand skills Covers foundation and development of hand skills therapeutic intervention and special problems and approaches Is readable concise and well organized with a consistent format throughout Integrates recent research findings and current thinking throughout the text Emphasizes neuroscience and the hand's sensory function and haptic perception Applies neuroscience and development frames of reference throughout Implications for practice included in each chapter Presents concepts in the foundation development chapters that are linked with the intervention chapters Seven new chapters reflect current practice in the field and cover cognition motor skills handedness fine motor program for preschoolers handwriting evaluation splinting the upper extremity of the child pediatric hand therapy and efficacy of interventions Extensively revised content throughout includes new research and theories new techniques current trends and new information sources 9 new contributors offer authoritative guidance in the field Over 200 new illustrations demonstrate important concepts with new clinical photographs and line drawings Over 50 new tables and boxes highlight important information An updated and expanded glossary defines key terms

Routledge International Handbook of Visual-motor skills, Handwriting, and Spelling Yanyan Ye, Tomohiro Inoue, Urs Maurer, Catherine McBride, 2023-08-22 The Routledge International Handbook of Visual motor skills Handwriting and Spelling explores the potentially controversial field of early literacy education It aims to offer scholars and practitioners an analysis of how and why handwriting skills benefit early literacy learning especially spelling acquisition and how this can enrich experiences for children and educators Offering global perspectives from the field the volume integrates current theories with up to date research and practice revealing how we can best support children's early literacy learning with handwriting and visual motor skills interventions Key topics covered include The fundamentals of handwriting skills and literacy acquisition Global literacy and spelling Dysgraphia handwriting difficulties and dyslexia Spelling and writing in the digital age Home learning environment and spelling Instruction and interventions for spelling and writing This comprehensive survey will be essential reading for scholars and students of developmental psychology education and literacy research

A Correlative Analysis of the Relationship Between the Developmental Test of Visual-motor Integration and the Evaluation Tool of Children's Handwriting Jayne Dougherty, 1998

Reading and Writing Skills: Cognitive, Emotional, Creative, and Digital Approaches María Isabel de Vicente-Yagüe Jara, Elena Jiménez-Pérez, Pedro García Guirao, Olivia López Martínez, 2023-12-14

Intertwining Graphonomics with Human Movements Cristina Carmona-Duarte, Moises Diaz, Miguel A. Ferrer, Aythami Morales, 2022-12-09 This book constitutes the proceedings of the 20th International Conference of the International Graphonomics Society IGS 2021 2022 Originally

planned to be celebrated in September 2021 due to the COVID 19 pandemic it was held in June 2022 The 36 full and 3 short papers presented at the conference were carefully reviewed and selected from 41 submissions and reviewed by a committee of 67 reviewers Out of the 41 conferences 26 papers were selected to be published in this proceedings The program was comprised of 6 oral sessions on the following topics historical documents forensic handwriting examinations handwriting learning and development and motor control One additional poster session included papers on all previous topics and three special sessions included papers on neurodegenerative disorders

The SAGE Encyclopedia of Intellectual and Developmental Disorders Ellen Braaten,2018-01-29 This encyclopedia provides an inter disciplinary approach discussing the sociocultural viewpoints policy implications educational applications and ethical issues involved in a wide range of disorders and interventions *Occupational Therapy for Children - E-Book* Jane Case-Smith,Jane Clifford

O'Brien,2013-08-07 The sixth edition of Occupational Therapy for Children maintains its focus on children from infancy to adolescence and gives comprehensive coverage of both conditions and treatment techniques in all settings Inside you ll discover new author contributions new research and theories new techniques and current trends to keep you in step with the changes in pediatric OT practice This edition provides an even stronger focus on evidence based practice with the addition of key research notes and explanations of the evidentiary basis for specific interventions Unique Evolve Resources website reinforces textbook content with video clips and learning activities for more comprehensive learning Case studies help you apply concepts to actual situations you may encounter in practice Evidence based practice focus reflects the most recent trends and practices in occupational therapy Unique Chapter on working with adolescents helps you manage the special needs of this important age group Unique Research Notes boxes help you interpret evidence and strengthen your clinical decision making skills Video clips on a companion Evolve Resources website reinforce important concepts and rehabilitation techniques

Multisensory Integration as a Pathway to Neural Specialization for Print in Typical And Dyslexic Readers Across Writing Systems Susana Araújo,Tânia Fernandes,Urs Maurer,2022-06-27

Culture Matters to Mathematics Teaching and Learning Mun Yee Lai,Rongjin Huang,2025-07-19 This book compiled in honor of Chair Professor Frederick K S Leung contributes to revisiting renewing and enriching the knowledge of cultural matters to mathematics education widening the horizon in the use of cultural perspectives to explain the characteristics of classroom teaching and learning in East Asia and to explain re interpret the differences in teacher knowledge and beliefs between East Asian and Western countries Multiple research methods are used to explore how different cultures influence mathematics education In particular the book discusses the comparative studies of mathematics education the influence of different cultures on mathematics teaching and learning and the use of the Confucian Heritage Culture to explain the phenomenon of superior mathematics achievement of East Asian students The research methods include qualitative approaches quantitative approaches such as structured equation modelling exploratory factor analysis and confirmation factoranalysis case studies

and a meta analysis of the literature review This book is dedicated to Chair Professor Frederick K S Leung s Hans Freudenthal Medallist 2013 and President of ICMI 2021 2024 one of the pioneers in investigating the cultural differences in mathematics education and establishing a framework for the relationship between cultures and mathematics educations This book acknowledges his many contributions to the field and showcases promising research advancements that sparked directly or indirectly from his intellectual contributions to different mathematics educators globally

Psychology and Neuropsychology of Perception, Action, and Cognition in Early Life Silvio Ionta, Els Ortibus, Jane Elizabeth Aspell, 2022-04-04 *Kielhofner's Research in Occupational Therapy* Renee R Taylor, 2017-01-05 With an international team of expert contributors Renee Taylor carries on Gary Kielhofner s innovative work in the 2nd Edition of his comprehensive research methodologies text This guide bridges the gap between theorists and practitioners It focuses on the relevance and logic of research to provide a practical demystified approach to conducting applied research in the field for graduate students and clinicians You ll begin with an introduction to the nature and scope of research and its place in OT and then explore research designs measurements and statistical analysis for qualitative quantitative and mixed studies You ll examine the steps and procedures required to conduct research and how research can be used to shape professional practice and improve patient care

The researchED Guide to Primary Literacy: An evidence-informed guide for teachers Stephen Lockyer, 2024-10-25 researchED is an educator led organisation with the goal of bridging the gap between research and practice This accessible and punchy series overseen by founder Tom Bennett tackles the most important topics in education with a range of experienced contributors exploring the latest evidence and research and how it can apply in a variety of classroom settings Literacy is one of the most powerful and transformative learning tools making changes and improvements in Literacy will have a direct impact on your work your learning and your aspirations across all subjects in the curriculum In this book Stephen Lockyer brings together contributions from expert writers including Clare Sealy Emma Stokes Neil Almond and Andrew Percival to show how making tiny incremental changes with consistency and genuine purpose can have a big effect on your students their literacy and their learning Each chapter has an abundance of ideas to take into your classroom and have a direct impact on the pupils

Foundations of Forensic Document Analysis Michael J. Allen, 2015-07-31 Forensic document examination is a long established specialty and its practitioners have regularly been shown to have acquired skills that enable them to assist the judicial process This book aimed primarily at students studying forensic science and document examination in particular introduces all of the essential ideas that are to be found in the work of the forensic document examiner in a concise and straightforward way Each examination type is described not only in terms of its procedural basis but also the science and reasoning that underpins it The reader will be able to relate the different kinds of interpretation skills used by the document examiner to those used in other forensic disciplines This book will be an invaluable text for all students taking courses in Forensic Science or related subjects The book will also be a useful

reference for researchers new to this field or practitioners looking for an accessible overview The author will be adding new references that are relevant as they are published and some more worked examples from time to time Please visit qdbook.blogspot.co.uk for more details

[The Relationship Between Fine Motor Manipulative Skill, Visual-motor Integration, Visual Sequential Memory, Visual Scans, Copying Errors and Handwriting Rate and Legibility in First Grade Children](#) Cecily Grace Horn Damour,1989

Sensory and Motor Strategies (3rd edition) Corinna Laurie,2022-08-18 In this fully revised third edition Corinna Laurie sets out practical strategies to help autistic children develop their sensory and motor skills Learn to identify possible challenges recognise signs of overload and work in a co productive way with your student or child developing sensory regulation strategies and improving motor skills to aid well being The simple low cost activities provide practical solutions to help children meet the demands of any situation building skills from handwriting and using scissors to improving posture co ordination and motor planning Sensory strategies include calming techniques and simple environmental modifications to prevent overwhelm among many others Helping to improve functional abilities and enable children to thrive and build independence this is an essential resource for anyone working with children on the autism spectrum

Pediatric Skills for Occupational Therapy Assistants - E-Book Jean W. Solomon,Jane Clifford O'Brien,2010-12-15 UNIQUE Demonstrates how concepts apply to practice with video clips on the Evolve website that exhibit pediatric clients involved in a variety of occupational therapy interventions UNIQUE Prepares you for new career opportunities with content on emerging practice areas such as community systems UNIQUE Offers new assessment and intervention strategies with the addition of content on Model of Human Occupation MOHO assessments and physical agent modalities PAMS Provides the latest information on current trends and issues such as childhood obesity documentation neurodevelopmental treatment NDT and concepts of elongation

[Touch Screen Tablets Touching Children's Lives](#) Joanne Tarasuik,Gabrielle Strouse,Jordy Kaufman,2018-02-28 Touch screen tablets have greatly expanded the technology accessible to preschoolers toddlers and even infants given that they do not require the fine motor skills required for using traditional computers Many parents and educators wish to make evidence based decisions regarding young children s technology use yet technological advancements continue to occur faster than researchers can keep up with Accordingly despite touch screen tablets entering society more than 5 years ago we are in the infancy of research concerning interactive media and children The topic has gained traction in the past couple of years For example theoretical papers have discussed how interactive media activities differ from physical toys and passive media Christakis 2014 and how educational apps development should utilise the four pillars of learning Hirsh Pasek et al 2015 Yet there has been little experimental research published on young children and touch screen use

Frames of Reference for Pediatric Occupational Therapy Paula Kramer,2018-12-07

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Edition uses frames of reference for diagnostic categories neuro development social participation etc as effective blueprints for applying theory to pediatric OT practice Updated with new chapters case examples and a new focus on evidence based practice This proven approach helps students understand the why of each frame of reference before moving on to the how of creating effective treatment programs to help pediatric clients lead richer fuller lives The book first covers the foundations of frames reference for pediatric OT Section I and then covers commonly used frames of reference such as motor skill acquisition biomechanical and sensory integration Section II A final section discusses newer focused specific frames of reference like handwriting skills and social participation A standardized format within each frame of reference chapter covers the same elements Theoretical Base Supporting Evidence the Function Dysfunction Continuum Guide to Evaluation and Application to Practice to help students build the knowledge and skills needed for effective practice Everyday Assessment for Special Education and Inclusive Classroom Teachers Frank Dykes, Jessica Rueter, Staci Zolkoski, 2024-06-01 Everyday Assessment for Special Education and Inclusive Classroom Teachers A Case Study Approach provides a foundation in practical research based methods to help today s teachers tailor their instruction to meet the needs of all learners With an easy to understand format Everyday Assessment for Special Education and Inclusive Classroom Teachers combines real life case studies with practitioner friendly wording to teach and describe assessment topics in a concise manner Practical applications for use in classroom settings can also be found throughout the text What s included in Everyday Assessment for Special Education and Inclusive Classroom Teachers Example progress monitoring charts Curriculum based assessments behavior charts and norm referenced assessments to guide the reader when extracting data and inform everyday teaching practices Activities to practice skills and self reflect on learning objectives at the end of each chapter Everyday Assessment for Special Education and Inclusive Classroom Teachers A Case Study Approach pairs rationale and research with real life case studies and applications for practice to prepare pre service teachers to meet the unique needs of every learner

Physical Activity and Sport During the First Ten Years of Life Richard Bailey, Jennifer P. Agans, Jean Côté, Andy Daly-Smith, Phillip D. Tomporowski, 2021-04-12 Evidence suggests that the first 10 or so years of life create the foundation for subsequent participation in recreational and health related physical activity This book brings together researchers and practitioners with expertise in issues related to physical activity physical education and sport during the primary elementary phase of schooling to explore these important issues Combining inter disciplinary perspectives the book addresses the inherent complexity of researching with young children It looks at the evidence on development during the first 10 years and how that evidence relates to physical activity and to sport in pre school school and out of school Finally the book offers a series of national case studies from Asia Europe and Africa demonstrating the importance of age appropriate sport and physical activity This is important reading for any student researcher educator or policy maker with an interest in physical activity and health education in the early years or at primary elementary level paediatric exercise science or youth sport

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