

Specific Learning Difficulties - *difficulties experienced by a person in the way they learn and process information.*



Specific Learning Difficulties In Mathem

Peter Westwood



Specific Learning Difficulties In Mathem:

Math Instruction for Students with Learning Difficulties Susan Perry Gurganus,2021-11-29 This richly updated third edition of Math Instruction for Students with Learning Difficulties presents a research based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK 12 teachers Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics this essential text addresses teacher and student attitudes towards mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors Chapters on assessment and instruction precede strands that focus on critical concepts Replete with suggestions for class activities and field extensions the new edition features current research across topics and an innovative thread throughout chapters and strands multi tiered systems of support as they apply to mathematics instruction

Dyscalculia Guidance Brian Butterworth,Dorian Yeo,2004-01 Purpose To help teachers understand the maths performance of dyscalculic pupils and detail teaching strategies and practical activities through which they can best be supported in their maths learning Benefits Offers a definition of dyscalculia Gives guidelines for helping dyscalculic pupils in the classroom Provides teaching strategies to help pupils make progress in maths learning and specific practical activities for use in the classroom Is underpinned by an understanding of the emotional well being of dyscalculic learners Provides the next crucial steps once dyscalculic tendencies have been identified Is from the UK s expert in dyscalculia providing a detailed explanation of the condition to aid teachers understanding of the issue A highly experienced classroom practitioner provides teachers with specific strategies and activities to improve pupils progress in maths

Understanding Learning Difficulties in Maths: Dyscalculia, Dyslexia or Dyspraxia? Judy Hornigold,2017-10-16 Why do some pupils experience maths learning difficulties How can you determine whether there is a specific learning difficulty such as dyscalculia dyspraxia or dyslexia What teaching strategies can help overcome maths anxiety and specific maths learning difficulties Without doubt maths is one of the most important subjects taught in schools and yet it is the one subject that can strike fear and dread in children from the very start of their education In this book Judy Hornigold explores potential causes of maths learning difficulties and particularly the specific difficulties that learners with dyscalculia dyslexia and or dyspraxia experience It considers how general maths anxiety impedes mathematical development and then examines whether this or a more fundamental and specific difficulty with maths such as dyscalculia is the real root of difficulties The book then looks in detail at a wide range of strategies to help overcome general maths anxiety and more specific learning difficulties It addresses four distinct areas core number reasoning memory and visual spatial awareness as the main areas of difficulty for learners with dyscalculia core number and reasoning dyslexia memory and dyspraxia visual spatial awareness

Specific Learning Difficulties Charles Weedon,University of Stirling. Department of Education,1992

Why is Math So Hard for Some Children? Daniel B. Berch,Michèle M. M.

Mazzocco,2007 This landmark resource gives educational decision makers and researchers theoretical and practical insight into mathematical learning difficulties and disabilities combining diverse perspectives from fields such as special education developmental

MATHEMATICS DIFFICULTIES AND DYSCALCULIA JESSINA MUTHEE,2018-11-19 Dyscalculia is a specific learning disability in Maths Children with dyscalculia may have difficulty understanding number related concepts or using symbols and functions needed for success in Mathematics Dyscalculia is a common learning issue that impacts kids ability to do Maths This book therefore is a good resource material for both seachers parents educational administrators and psychologists dealing with persons who have specific learning disabilities in Maths

International Handbook of Mathematical Learning Difficulties Annemarie Fritz,Vitor Geraldi Haase,Pekka Räsänen,2019-01-30 This comprehensive volume provides teachers researchers and education professionals with cutting edge knowledge developed in the last decades by the educational behavioural and neurosciences integrating cognitive developmental and socioeconomic approaches to deal with the problems children face in learning mathematics The neurocognitive mechanisms and the cognitive processes underlying acquisition of arithmetic abilities and their significance for education have been the subject of intense research in the last few decades but the most part of this research has been conducted in non applied settings and there s still a deep discrepancy between the level of scientific knowledge and its implementation into actual educational settings Now it s time to bring the results from the laboratory to the classroom Apart from bringing the theoretical discussions to educational settings the volume presents a wide range of methods for early detection of children with risks in mathematics learning and strategies to develop effective interventions based on innovative cognitive test instruments It also provides insights to translate research knowledge into public policies in order to address socioeconomic issues And it does so from an international perspective dedicating a whole section to the cultural diversity of mathematics learning difficulties in different parts of the world All of this makes the International Handbook of Mathematical Learning Difficulties an essential tool for those involved in the daily struggle to prepare the future generations to succeed in the global knowledge society

Specific Learning Difficulties in Mathematics Olwen El-Naggat,1996 This book examines the inconsistent and apparently irrational response to normal classroom teaching of the pupil with specific learning difficulties It avoids jargon and draws on practical experience and examples Identification characteristics assessment and differentiated teaching are explained and discussed

What Learning Difficulties Do Children with the Specific Learning Difficulty of Dyslexia Experience in the Learning of Mathematics?. Sarah Beak,1998

Mathematics for Dyslexics and Dyscalculics Steve Chinn,Richard Edmund Ashcroft,2017-01-18 A seminal handbook in the field for more than 20 years this new and updated edition of Mathematics for Dyslexicsand Dyscalculics contains the latest research and best practices for helping learners with numerical and mathematical difficulties Provides a complete overview of theory and research in the fields of dyslexia and dyscalculia along with detailed yet pragmatic methods to apply in the classroom Contains enhanced coverage of

place value and the role of the decimal point why fractions can challenge a developed logic for arithmetic and the complexity of time along with new material on addressing anxiety fear motivation and resilience in the classroom and links to new resources including standardized tests and recommended reading lists Written by two mathematics teachers with 50 years of teaching experience between them much of it in specialist settings for students with specific learning difficulties Offers effective teaching strategies for learners of all ages in a structured but accessible format **Mathematics Solutions: A1, A2. How to identify, assess and manage specific learning difficulties in mathematics** Jan Poustie,2005 Gives practical advice on how to identify assess and manage specific learning difficulties in mathematics in children and adults

Identifying, Assessing and Supporting Learners with Dyscalculia Kathleen Kelly,2020-07-13 Online Resources are open access No code is required It is vital to understand the challenges and provide the right support for learners with dyscalculia and specific learning difficulties in mathematics The book provides an overview of current research explaining the nature and causation of dyscalculia guidance on the identification of dyscalculia examples of how to carry out informal and formal assessments an explanation of the principles of multisensory mathematics teaching an outline of a structured programme for learners aged 5 14 together with examples of lesson planning and activities Designed for teachers specialising in the assessment and teaching of learners with dyscalculia and those undertaking courses leading to Approved Teacher Dyscalculia ATD and Associate Membership of the British Dyslexia Association AMBDA the book is useful to any professional looking for an understanding of this area of specific difficulty *Resources in Education* ,1991-10 **Effective Teaching Strategies for Dyscalculia and Learning Difficulties in Mathematics** Marie-Pascale Noël,Giannis Karagiannakis,2022-03-28 Effective Teaching Strategies for Dyscalculia and Learning Difficulties in Mathematics provides an essential bridge between scientific research and practical interventions with children It unpacks what we know about the possible cognitive causation of mathematical difficulties in order to improve teaching and therefore learning Each chapter considers a specific domain of children s numerical development counting and the understanding of numbers understanding of the base 10 system arithmetic word problem solving and understanding rational numbers The accessible guidance includes a literature review on each topic surveying how each process develops in children the difficulties encountered at that level by some pupils and the intervention studies that have been published It guides the reader step by step through practical guidelines of how to assess these processes and how to build an intervention to help children master them Illustrated throughout with examples of materials used in the effective interventions described this essential guide offers deep understanding and effective strategies for developmental and educational psychologists special educational needs and or disabilities coordinators and teachers working with children experiencing mathematical difficulties **Children with Specific Learning Difficulties of Mathematics and Reading** Alan J. Smith,University of Glasgow,1997 *A Handbook for Primary Mathematics Co-ordinators* David J. Winteridge,1989 **The Routledge International Handbook of**

Dyscalculia and Mathematical Learning Difficulties Steve Chinn,2014-11-20 Mathematics plays an important part in every person's life so why isn't everyone good at it? The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties brings together commissioned pieces by a range of hand-picked influential international authors from a variety of disciplines all of whom share a high public profile. More than fifty experts write about mathematics learning difficulties and disabilities from a range of perspectives and answer questions such as: What are mathematics learning difficulties and disabilities? What are the key skills and concepts for learning mathematics? How will IT help now and in the future? What is the role of language and vocabulary? How should we teach mathematics? By posing notoriously difficult questions such as these and studying the answers, The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties is the authoritative volume and is essential reading for academics in the field of mathematics. It is an incredibly important contribution to the study of dyscalculia and mathematical difficulties in children and young adults.

Dyslexia, Dyscalculia and Mathematics Anne Henderson,2013-05-02 Dyslexia, Dyscalculia and Mathematics will be an essential resource for teachers, classroom assistants and SENCOs who help dyslexic and dyscalculic children with their understanding of mathematics. Written in an accessible style with helpful illustrations, this practical book reveals helpful ways in which to tackle both simple and complex concepts with students of all ages. This second edition has been updated to include references to using technology that will help children with dyslexia and dyscalculia reinforce their mathematical skills and also contains a number of photocopiable resources that can be used in the classroom. Written by Anne Henderson, who is experienced in teaching language and mathematics to pupils with dyslexia and dyscalculia, this book outlines current thinking in the field and shows how the research methods that have been proven as successful can be used with whole classes of children. This book encourages flexible methods and gives teachers the confidence to discuss alternative solutions with their pupils and help them achieve success. It is an ideal handbook for parent-teacher programmes and is also suitable for in-service training.

Numeracy and Learning Difficulties Peter Westwood,2016-09-01 Numeracy and Learning Difficulties provides guidance on how to develop flexible teaching methods and strategies to improve mathematical skills of students. It discusses common areas of learning difficulty in mathematics and looks at ways teachers can determine gaps in students' knowledge as well as how to develop curricula and problem-solving strategies to address these gaps.

Dyscalculia Glynis Hannell,2013-09-13 This book provides classroom and special education teachers with an overview of maths disorders and provides a wide range of appropriate intervention strategies. It addresses the issues in a very direct and user-friendly way and provides an invaluable resource for teachers, TAs and parents to dip into. Although written in a very straightforward, accessible style, the book is pedagogically sound and will strike chord with professionals. It takes readers through the cognitive process that underpins success in mathematics and gives examples of why difficulties occur in individual students. Readers are taken step by step through each stage of the maths curriculum and each section is followed by a comprehensive

list of action plans The advice is down to earth and achievable

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