

WORKING MEMORY

Working memory refers to the parts of human memory dedicated to processing and utilizing temporary (or 'short-term') information.

DEFINITION

"[Working memory is] the processes that we use to make sense of, modify, interpret, and store information in short term memory are known as working memory."
(University of Minnesota, 2010, p. 318)

EXAMPLES

- When meeting someone for the first time, we may repeat their name silently in the hopes of being able to remember it later.
- A graphic designer trying to visualize a possible logo design in their mind's eye.
- A beginning reader trying to recall the pronunciation of specific blends when encountering an unfamiliar word.

Working Memory In Perspective

Stephen von Tetzchner



Working Memory In Perspective:

Working Memory in Perspective Jackie Andrade,2002-06-01 Working Memory is one of the central topics in experimental psychology Offers a unique assessment and critique of the famous Baddeley and Hitch model of Working Memory Of interest to students and researchers in all areas of cognitive psychology

Cognitive and Metacognitive Problem-Solving Strategies in Post-16 Physics Ronald Mazorodze,Michael J. Reiss,2019-09-20 This book reports on a study on physics problem solving in real classrooms situations Problem solving plays a pivotal role in the physics curriculum at all levels However physics students performance in problem solving all too often remains limited to basic routine problems with evidence of poor performance in solving problems that go beyond equation retrieval and substitution Adopting an action research methodology the study bridges the research practical divide by explicitly teaching physics problem solving strategies through collaborative group problem solving sessions embedded within the curriculum Data were collected using external assessments and video recordings of individual and collaborative group problem solving sessions by 16 18 year olds The analysis revealed a positive shift in the students problem solving patterns both at group and individual level Students demonstrated a deliberate well planned deployment of the taught strategies The marked positive shifts in collaborative competences cognitive competences metacognitive processing and increased self efficacy are positively correlated with attainment in problem solving in physics However this shift proved to be due to different mechanisms triggered in the different students

Working Memory from the Perspective of the Multicomponent Model and Embedded-processed Model Anka Slana Ozimič,2020 In this article we focus on working memory the ability to store and actively manipulate information for a short period of time and present two prominent theoretical frameworks for its study Baddeley and Hitch s multicomponent model of working memory and Cowan s embedded processes model The multicomponent model assumes modality specific slave components for temporary storage and rehearsal of information and a central executive component that controls the entire system and determines what information enters and leaves the stores The embedded processes model on the other hand gives a more general description of the working memory system by focusing on its processes It assumes that attention allocated to representations stored in the long term memory underlies the short term maintenance of information We further describe in more detail how models conceptualize and define working memory its components and the processes involved as well as factors in limiting its capacity Finally we describe similarities and differences between the models and present how the components of the models can be mapped to one another and to the brain systems

Cognitive Psychology Nick Braisby,Angus Gellatly,2012-03 Cognitive Psychology provides insight into this illuminating subject leading readers through such topics as attention memory judgement and decision making and introducing us to the latest computational and imaging techniques through which our understanding of these topics is being continually enhanced

The Handbook of Mathematical Cognition Jamie I.D. Campbell,2005-08-15 How does the brain

represent number and make mathematical calculations What underlies the development of numerical and mathematical abilities What factors affect the learning of numerical concepts and skills What are the biological bases of number knowledge Do humans and other animals share similar numerical representations and processes What underlies numerical and mathematical disabilities and disorders and what is the prognosis for rehabilitation These questions are the domain of mathematical cognition the field of research concerned with the cognitive and neurological processes that underlie numerical and mathematical abilities The Handbook of Mathematical Cognition is a collection of 27 essays by leading researchers that provides a comprehensive review of this important research field The Routledge Handbook of the Psychology of Language Learning and Teaching Tammy Gregersen, Sarah Mercer, 2021-11-10 This state of the art volume is the first to capture a hybrid discipline that studies the role and linguistic implications of the human mind in language learning and teaching This Handbook considers individual as well as collective factors in language learners and teachers from an array of new empirical constructs and theoretical perspectives including implications for practice and myths debates and disagreements in the field and points to future directions for research This collection of stellar contributions is an essential resource for researchers advanced students and teachers working in applied linguistics second language acquisition psychology and education **Emerging Literacy: Unlocking Instruction for Every Child** James McTaggart, James Cook, Rebecca Castelo, Jennifer Pickering, 2024-11-25 Being able to read and write with ease does not just open up imagination and learning it also helps us to thrive and cope in a world increasingly based on complex information from coding to utility bills Everyone wants children to make the best start with literacy but despite the existence of evidence based programmes of instruction some do not respond as hoped at first or show a fade in learning in later school years This book is about why that happens and what we can do about it Drawing on research and the wide expertise of its authors it sets out how lifelong literacy is based on crucial aspects of early child development and how these can be assessed and improved in classrooms The book focuses on five core emerging literacy skills that underpin successful learning for children concepts of print phonological awareness oral language working memory and executive function and pencil control Chapters Guide the reader on how to build the foundations of lifelong literacy as well as easy to do unintrusive means to assess the different strengths and gaps that learners have Explore how teaching and learning can be adjusted so that all can learn and make progress Contain inexpensive and playful but effective and practical ways to develop the skills in an ordinary classroom or home Are accompanied by a downloadable practical toolkit of resources to use with children Educators who use this book and reflect on and adapt its ideas will be more confident in what they are doing with an enriched understanding of why it fits the children they are educating It will be crucial reading for early years educators primary classroom practitioners educational psychologists and speech and language therapists Human Factors Psychology P.A. Hancock, 1987-10-01 This book is a collection of contemporary applications of psychological insights into practical human factors issues The topics are

arranged largely according to an information processing energetic approach to human behavior Consideration is also given to human computer interaction and organizational design Developmental Disorders and Interventions ,2010-11-26 Volume 39 of the Advances in Child Development and Behavior series is concerned with Developmental Disorders and Interventions This volume provides an overview of contemporary research into cognitive neurodevelopmental and genetic disorders of learning The social emotional and cognitive functioning of children with William s syndrome Down syndrome Fragile X and autism reading difficulties mathematical difficulties and working memory problems are discussed by some of the leading researchers in the field Within each chapter the authors consider current interventions and methods for remediating difficulties associated with each disorder which will be of particular interest to clinical and educational practitioners Goes in depth to address contemporary research into neurodevelopmental and genetic disorders of learning A necessary resource for both psychology researchers and students The authors are either leaders in their chosen fields or have worked in some of the leading research teams in the world This volume covers a broad range of developmental disorders of learning from genetic disorders such as Down syndrome to cognitive problems such as poor working memory function The focus on interventions within each chapter will be of particular interest both to academics and clinical and educational practitioners

Primate Perspectives on Behavior and Cognition David A. Washburn,Duane M. Rumbaugh,2007 Experts with a diverse range of perspectives explore the contributions made to the study of primate cognition and behavior and provide guideposts for new generations of researchers studying behavior as manifested across primate species The contributors first explore commonly used research methodology and then look at the groundbreaking content of recent research

Cross-cultural Perspectives in Introductory Psychology William F. Price,Richley H. Crapo,2002 By William F Price North Country Community College and Richley H Crapo Utah State University This timely revision contains 26 articles on cultural groups around the globe and is an ideal companion volume to any introductory psychology text Where appropriate in the standard curriculum of the introductory course the authors include a cross cultural reading or vignette that enriches the traditional material of the course The book is designed to increase student understanding of the similarities and differences among the peoples of the world as they relate to psychological principles concepts and issues As topics are covered in the introductory course readings offer another dimension

Journal of Mental Imagery ,1997 *Perspectives on Cognitive Change in Adulthood and Aging* Fredda Blanchard-Fields,Thomas M. Hess,1996 This upper level text for advanced undergraduate students addresses cognitive and intellectual changes in adulthood and ageing Chapters cover such topics as foundations intelligence information processing memory and cognition in context *The Development of Working Memory* Anik de Ribaupierre,Graham J. Hitch,1994 This Special Issue of the International Journal of Behavioral Development brings together research on the development of working memory that arises within two quite different approaches *Journal of Speech and Hearing Research* ,1994 *Cognitive Psychology* Robert J.

Sternberg,2003 Sternberg s text balances accessible writing practical applications and research scholarship including biologically oriented information It explores the basics of cognitive psychology through its coverage of cognitive neuroscience attention and consciousness perception memory knowledge representation language problem solving and creativity decision making and reasoning cognitive development and intelligence **Perspectives on Theory and Practice in Augmentative and Alternative Communication** Stephen von Tetzchner,2003 **Goal-directed Experiences and the Development of Consumer Knowledge** Cynthia Dianne Huffman,1991 New Research on Short-term Memory Noah B. Johansen,2008 Short term memory sometimes referred to as primary working or active memory is said to hold a small amount of information for about 20 seconds Estimates of short term memory capacity vary from about 3 or 4 elements i e words digits or letters to about 9 elements a commonly cited capacity is 7 2 elements In contrast long term memory indefinitely stores a seemingly unlimited amount of information Short term memory can be described as the capacity or capacities for holding in mind in an active highly available state a small amount of information The information held in short term memory may be recently processed sensory input items recently retrieved from long term memory or the result of recent mental processing although that is more generally related to the concept of working memory This book presents the latest research in the field from around the world *Memory* Jackie Andrade,2008

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Table of Contents Working Memory In Perspective

1. Understanding the eBook Working Memory In Perspective
 - The Rise of Digital Reading Working Memory In Perspective
 - Advantages of eBooks Over Traditional Books
2. Identifying Working Memory In Perspective
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Working Memory In Perspective
 - User-Friendly Interface
4. Exploring eBook Recommendations from Working Memory In Perspective
 - Personalized Recommendations
 - Working Memory In Perspective User Reviews and Ratings
 - Working Memory In Perspective and Bestseller Lists
5. Accessing Working Memory In Perspective Free and Paid eBooks
 - Working Memory In Perspective Public Domain eBooks

- Working Memory In Perspective eBook Subscription Services
- Working Memory In Perspective Budget-Friendly Options
- 6. Navigating Working Memory In Perspective eBook Formats
 - ePub, PDF, MOBI, and More
 - Working Memory In Perspective Compatibility with Devices
 - Working Memory In Perspective Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Working Memory In Perspective
 - Highlighting and Note-Taking Working Memory In Perspective
 - Interactive Elements Working Memory In Perspective
- 8. Staying Engaged with Working Memory In Perspective
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Working Memory In Perspective
- 9. Balancing eBooks and Physical Books Working Memory In Perspective
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Working Memory In Perspective
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Working Memory In Perspective
 - Setting Reading Goals Working Memory In Perspective
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Working Memory In Perspective
 - Fact-Checking eBook Content of Working Memory In Perspective
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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