Research Article



The Critical Importance of Retrieval and Spacing—for Learning

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Abstract

We examined the impact of sepeated testing and repeated studying on long-term learning. In Experiment 1, we replicated Karpicke and Roediger's (2008) influential results showing that once information can be recalled, repeated testing on that information enhances learning, whereas restudying that information does not. We then examined testing on that information enhances learning, whereas restudying that information does not. We then examined testing the attributable to the spacing differences between items that were inherent in the between-subjects design employed by Karpicke and Roediger. When we controlled for these spacing differences by manipulating the various learning conditions within subjects in Experiment 2, we found that both repeated testing and restudying improved learning, and that learners' awareness of the relative mnemonic benefits of these strategies was enhanced. These findings contribute to understanding how two important factors in learning—test-induced retrieval processes and spacing—can interact, and they illustrate that such interactions can play out differently in between-subjects and within-subjects experimental designs.

Keywords

learning, memory, testing, retrieval practice, spacing

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Memory tests do not merely assess memory. The retrieval practice promoted by testing acts as a "memory modifier" (Bjork, 1975) by rendering successfully retrieved information more recallable in the future than if that same information had not been tested or had been merely restudied (i.e., the testing effect). Testing can also potentiate, or enhance, the effectiveness of subsequent study sessions (for a review of the direct and indirect benefits of testing, see Roediger, Putram, & Smith, 2011).

In a highly cited article, Karpicke and Roediger (2008) reported a particularly dramatic demonstration of the benefits of retrieval practice. In their experiment, subjects studied Swahili-English vocabulary pairs (e.g., elimin-science) according to several different learning schedules that varied in the amount of repeated studying and repeated testing during the acquisition phase. They used four between-subjects conditions, each with four study (N)-test (T) cycles: ST, in which all pairs were studied and then tested in each cycle; S_a, T, in which pairs recalled on a test were dropped from subsequent study periods but retained in subsequent test periods C'N' refers to "nonrecalled" items, and thus S_a.

indicates that only nonrecalled items were restudied); ST_N , in which pairs recalled on a test were dropped from subsequent test periods but retained in subsequent study periods; and S_NT_N , in which pairs recalled on a test were dropped from both subsequent study and subsequent test periods. At the end of the acquisition phase, subjects were asked to predict how many pairs they would remember on a test in 1 week. They then returned after 1 week for a final retention test that included all of the pairs.

The results of Karpicke and Roediger's (2008) experiment were clear and striking. Although cumulative learning at the end of the acquisition phase was virtually identical acress the four conditions—in the sense that each subject, regardless of condition, had recalled almost every pair at least once successfully—and although subjects in the four

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The Critical Importance Of Retrieval For Learning

Mahbubur Rahman Syed

The Critical Importance Of Retrieval For Learning:

The Learning Skills Cycle William R. Klemm, 2017-03-01 This book s ideas demonstrate how students are not adequately taught the learning skills necessary for superior academic achievement The major reason schools are failing is that there is less emphasis on teaching students how to learn the focus is on what to learn instead This book provides teachers and parents with many concepts and tactics that they can use to teach children how to learn more efficiently and effectively This book identifies and explains those skills and frames them as interacting in a mutually interacting and Supporting Children and Young People with Test Anxiety in School reinforcing cycle that I call the Learning Skills Cycle Helen Barsham, 2025-11-28 This accessible and informative book provides educators with a unique approach to supporting children and young people with test anxiety combining key research and practical guidance to improve wellbeing and test outcomes The book focuses on three core areas for promoting wellbeing test anxiety theory desirable difficulties and self efficacy theory Underpinning research is presented in an accessible format and each topic is explored in depth with case studies and reflection points to deepen understanding and bring theory to life Chapters go on to introduce an innovative easy to implement intervention The intervention focuses on increasing children's metacognition of their own learning from how memory works to knowing how to revise lowering anxiety around high stakes exams and boosting overall wellbeing and ultimately academic success Including a wealth of examples and tips for tangibly supporting children and young people s learning outcomes this book is a crucial read for Special Educational Needs Coordinators SENCOs teachers and anyone with responsibility for the pastoral care and wellbeing of young people Research Methods Pedagogy: Engaging Psychology Students in Research Methods and Statistics Lynne Roberts, 2016-11-09 Research methods and statistics are central to the development of professional competence and evidence based psychological practice Noun masculine research on the development of psychological literacy Despite this many psychology students express little interest in and in some cases of active dislike of learning research methods and statistics This ebook brings together current research innovative evidence based practice and critical discourse <u>International Perspectives in Online Instruction Jaimie Hoffman, Patrick</u> Blessinger, 2021-11-04 Focusing on effective practices in online teaching this volume of Innovations in Higher Education Teaching and Learning begins with discussing the use of videos in online teaching and then pivots to consider methods for supporting and managing faculty who teach online Computer Supported Education H. Chad Lane, Susan Zvacek, James Uhomoibhi, 2020-11-09 This book constitutes the thoroughly refereed proceedings of the 11th International Conference on Computer Supported Education CSEDU 2019 held in Heraklion Crete Greece in May 2019 The 30 revised full papers were carefully reviewed and selected from 202 submissions The papers cover wide research fields including authoring tools and content development AV communication and multimedia classroom management e Learning hardware and software blended learning critical success factors in distance learning Psychology Daniel L. Schacter, Daniel T. Gilbert, Daniel M.

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valuable source of information for both cognitive scientists working in the field and researchers and students looking for a clear accessible presentation of the key problems in cognitive science Highlighted sections include attention and perception memory functions and processes knowledge representation and semantics modelling approaches and applications

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batteries are treated elsewhere according to the salient functions they examine Following chapters on observational measurement techniques and on measures of personality and emotional status the concluding chapter presents an array of techniques that have been used to identify motivational problems and malingering **Teach Your Very Best** Barnabas Otaala, Fred Opali, 2002 **Multimedia Technologies** Mahbubur Rahman Syed, 2008-01-01 This book offers an in depth explanation of multimedia technologies within their many specific application areas as well as presenting developing trends for the future Provided by publisher Advancing from the Ventral Striatum to the Extended Amygdala Jacqueline F. McGinty, 1999 The ventral striatopallidal and magnocellular systems emerged as organizing principles of the basal forebrain during the 1970s and 1980s The concept of the extended amygdala while still controversial is beginning to guide the thinking of scientists in the 1990s who are investigating the role of the basal forebrain in motivated behaviours and their dysfunction This volume explores the anatomy and function of the basal forebrain systems in neuropsychiatric and addictive behaviour

The Critical Importance Of Retrieval For Learning Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **The Critical Importance Of Retrieval For Learning**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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