

[PDF] Applying The Science Of Learning

Richard E. Mayer - pdf download free book



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Title: Applying the Science of Learning

Author: Richard E. Mayer

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Description:

A concrete guide to the science of learning, instruction, and assessment written in a friendly tone and presented in a dynamic format.

The underlying premise of *Applying the Science of Learning* is that educators can better help students learn if they understand the processes through which student learning takes place. In this clear and concise first edition text, educational psychology scholar Richard Mayer teaches readers how to apply the science of learning through understanding the reciprocal relationships between learning, instruction, and assessment.

Utilizing the significant advances in scientific learning research over the last 25 years,

this introductory text identifies the features of science of learning that are most relevant to education, explores the possible prescriptions of these findings for instructional methods, and highlights the essentials of evaluating instructional effectiveness through assessment. *Applying the Science of Learning* is also presented in an easy-to-read modular design and with a conversational tone — making it particularly student-friendly, whether it is being used as a supplement to a core textbook or as a standalone course text.

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In attempting to apply the science of learning, a central challenge of psychology and education is the development of a science of instruction aimed at understanding how to present material in ways that help people learn. The author provides an overview of how the design of multimedia instruction can be informed by the science of learning and the science of instruction, which yields 10 principles of multimedia instructional design that are grounded in theory and based on evidence. Overall, the relationship between the science of learning and the science of instruction is reciprocal. The Overlap But learning sciences, as a standalone discipline, is relatively new. Definitions are still emerging, but most agree that learning science is an interdisciplinary field focused on the development of effective learning methodologies and solutions. The empirical and theoretical underpinnings of neuroscience, cognitive science, instructional design, data analytics, anthropology, linguistics, computer science, psychology, and education have formed the foundation of the discipline. This truly is the intersection of where the science of learning meets the art of teaching because learning science offers us the power to apply empirical validation to our decision-making in education.

But learning sciences, as a standalone discipline, is relatively new. Definitions are still emerging, but most agree that learning science is an interdisciplinary field focused on the development of effective learning methodologies and solutions. The empirical and theoretical underpinnings of neuroscience, cognitive science, instructional design, data analytics, anthropology, linguistics, computer science, psychology, and education have formed the foundation of the discipline. This truly is the intersection of where the science of learning meets the art of teaching " because learning science offers us the power to apply empirical validation to our decision-making in education. The JHU Science of Learning Institute is an ambitious, interdisciplinary, Science of Learning Institute to understand learning across its systems and manifestations: from the individual brain cell to our capacity as a species. Training Future Leaders in the Science of Learning. We train scientists how to think broadly about learning, generate innovative perspectives and research on how we learn, and how to build meaningful connections between research, practice, and policy. Read More. Connecting Science to Practice. We collaborate with educators, practitioners, and policymakers to advance the understanding of science of learning research and translate research into meaningful, evidence-based practices, programs, and policies. Read More. Funded Research. Applying the Science of Learning: The Cognition Toolbox Victor A. Benassi, Elizabeth M. Tappin, Catherine E. Overson, Michael J. Lee, Edward J. O'Brien, Barbara Prudhomme White, Jennifer J. Stiegler-Balfour, and Christopher M. Hakala. Applying Evidence-Based Principles of Learning to Teaching Practice: The Bridging the Gap Seminar Debra Swoboda. Helping Students to Get the Most Out of Studying Stephen L. Chew. Part 3: Putting the Science of Learning into Practice. The Effects of Memory Retrieval, Errors and Feedback on Learning Nate Kornell and Janet Metcalfe. Applying Multimedia Principl Learning sciences (LS) is an interdisciplinary field that works to further scientific, humanistic and critical theoretical understanding of learning as well as to engage in the design and implementation of learning innovations, and the improvement of instructional methodologies. Research in the learning sciences traditionally focuses on cognitive-psychological, social-psychological, cultural-psychological and critical theoretical foundations of human learning, as well as on the design of learning