



Learning and Cognition: The Design of the Mind

By Michael E. Martinez

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What is the design of the mind? What does that design imply for education? This comprehensive and engaging introduction to human learning and its applications to education focuses on these vital questions by exploring the theories of knowledge, complex cognition, and human intelligence, presenting a clear and interesting overview of the human mind through multiple theoretical lenses. The author delineates how the mind has a clear design, or architecture, that explains simple acts of memory and complex cognition, to highly creative acts and leaps of scientific or artistic insight. Topics covered throughout the text include: memory, motivation, cognitive development, the brain, and intelligence. Unique to this text, the author has provided an interdisciplinary chapter dedicated to theories of knowledge, extended coverage of expert-novice differences and talent development, and a chapter devoted to intelligence. Readers will appreciate special features like *Learning Strategies* which cover specific application of the theories to classroom practice, and *Interest Magnets* which explore fascinating topics such as photographic memory, sleep learning, and Einstein's brain. Written like a narrative, *Learning and Cognition: The Design of the Mind* will delight its readers' interest and attention as they learn about the theories of human learning and cognition and the improvement of the mind through education.

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Editorial Review

From the Back Cover

What is the design of the mind? What does that design imply for education? This comprehensive and engaging introduction to human learning and its applications to education focuses on these vital questions by exploring the theories of knowledge, complex cognition, and human intelligence while presenting an overview of the human mind through multiple theoretical lenses in a clear and interesting way. Written in narrative form, it holds the reader's attention, telling a story that is both interesting and important to the improvement of the mind through education.

Special features include:

- Complete chapters dedicated to *Theories of Knowledge* (Chapter 4), *The Brain and Cognition* (Chapter 8), *Intelligence* (Chapter 10), and *Cognitive Development Through the Life Span* (Chapter 7).
- **24 Interest Magnets** found throughout the text feature fascinating topics related to human learning and cognition such as photographic memory, sleep learning, and Einstein's brain.
- **Learning Strategies** highlighted at the end of every chapter feature ten specific applications of theories to teaching and learning, relating to both the teacher and the student.

About the Author

Michael E. Martinez received his Ph.D. in educational psychology from Stanford University. A former high school science teacher, Professor Martinez conducts research on human intelligence, assessment, and science learning. He is a former Fulbright Scholar and received the Presidential Commendation for Contributions to Psychology from the American Psychological Association.

Users Review

From reader reviews:

Helen Kingsbury:

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