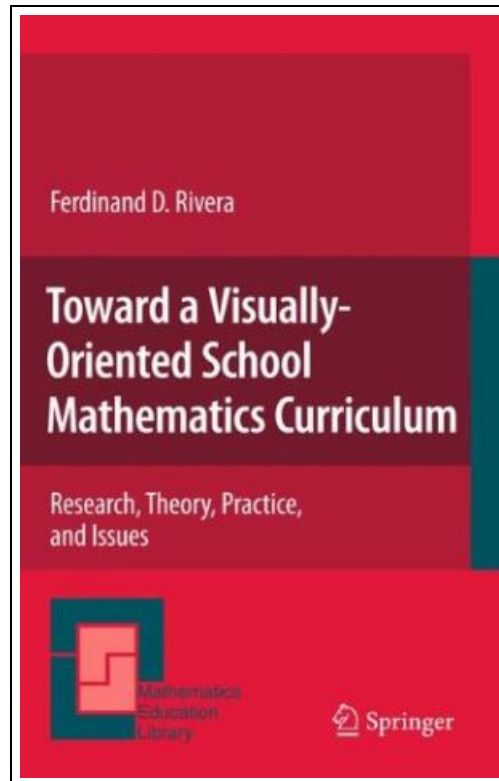


## Toward a Visually-Oriented School Mathematics Curriculum: Research, Theory, Practice, and Issues (Hardback)



Filesize: 1.2 MB

### **Reviews**

*This publication is wonderful. It can be rally fascinating through reading period of time. You are going to like the way the writer create this publication.*

*(Mrs. Piper Jacobi)*

## TOWARD A VISUALLY-ORIENTED SCHOOL MATHEMATICS CURRICULUM: RESEARCH, THEORY, PRACTICE, AND ISSUES (HARDBACK)

[DOWNLOAD](#)

Springer, Netherlands, 2011. Hardback. Condition: New. 2011 ed.. Language: English . Brand New Book. What does it mean to have a visual representation of a mathematical object, concept, or process? What visualization strategies support growth in mathematical thinking, reasoning, generalization, and knowledge? Is mathematical seeing culture-free? How can information drawn from studies in blind subjects help us understand the significance of a multimodal approach to learning mathematics? Toward a Visually-Oriented School Mathematics Curriculum explores a unified theory of visualization in school mathematical learning via the notion of progressive modeling. Based on the author's longitudinal research investigations in elementary and middle school classrooms, the book provides a compelling empirical account of ways in which instruction can effectively orchestrate the transition from personally-constructed visuals, both externally-drawn and internally-derived, into more structured visual representations within the context of a socioculturally grounded mathematical activity. Both for teachers and researchers, a discussion of this topic is relevant in the history of the present. The ubiquity of technological tools and virtual spaces for learning and doing mathematics has aroused interest among concerned stakeholders about the role of mathematics in these contexts. The book begins with a prolegomenon on the author's reflections on past and present visual studies in mathematics education. In the remaining seven chapters, visualization is pursued in terms of its role in bringing about progressions in mathematical symbolization, abduction, pattern generalization, and diagrammatization. Toward a Visually-Oriented School Mathematics Curriculum views issues surrounding visualization through the eyes of a classroom teacher-researcher; it draws on findings within and outside of mathematics education that help practitioners and scholars gain a better understanding of what it means to pleurably experience the symmetric visual/symbolic reversal phenomenon - that is, seeing the visual in the symbolic and the symbolic in the visual.

[Read Toward a Visually-Oriented School Mathematics Curriculum: Research, Theory, Practice, and Issues \(Hardback\) Online](#)[Download PDF Toward a Visually-Oriented School Mathematics Curriculum: Research, Theory, Practice, and Issues \(Hardback\)](#)

## Other Books



### **Next 25 Years, The: The New Supreme Court and What It Means for Americans**

SEVEN STORIES PRESS, 2008. Paperback. Book Condition: New. A new, unread, unused book in perfect condition with no missing or damaged pages. Shipped from UK. Orders will be dispatched within 48 hours of receiving your...

[Download Book](#)

»



### **Fox All Week: Level 3**

Penguin Putnam Inc, United States, 2004. Paperback. Book Condition: New. James Marshall (illustrator). Puffin Easy-To-Read ed.. 224 x 147 mm. Language: English . Brand New Book. Using their cache of already published easy-to-read books, Puffin...

[Download Book](#)

»



### **Goodparents.com: What Every Good Parent Should Know About the Internet (Hardback)**

Prometheus Books, United States, 2000. Hardback. Book Condition: New. 226 x 152 mm. Language: English . Brand New Book. The Internet may now be the most powerful, single source of information in the world, and...

[Download Book](#)

»



### **Bully, the Bullied, and the Not-So Innocent Bystander: From Preschool to High School and Beyond: Breaking the Cycle of Violence and Creating More Deeply Caring Communities**

HarperCollins Publishers Inc, United States, 2016. Paperback. Book Condition: New. Reprint. 203 x 135 mm. Language: English . Brand New Book. An international bestseller, Barbara Coloroso's groundbreaking and trusted guide on bullying-including cyberbullying-arms parents...

[Download Book](#)

»



### **I Am Reading: Nurturing Young Children's Meaning Making and Joyful Engagement with Any Book**

Heinemann Educational Books, United States, 2015. Paperback. Book Condition: New. 234 x 185 mm. Language: English . Brand New Book. It's vital that we support young children's reading in ways that nurture healthy...

[Download Book](#)

»