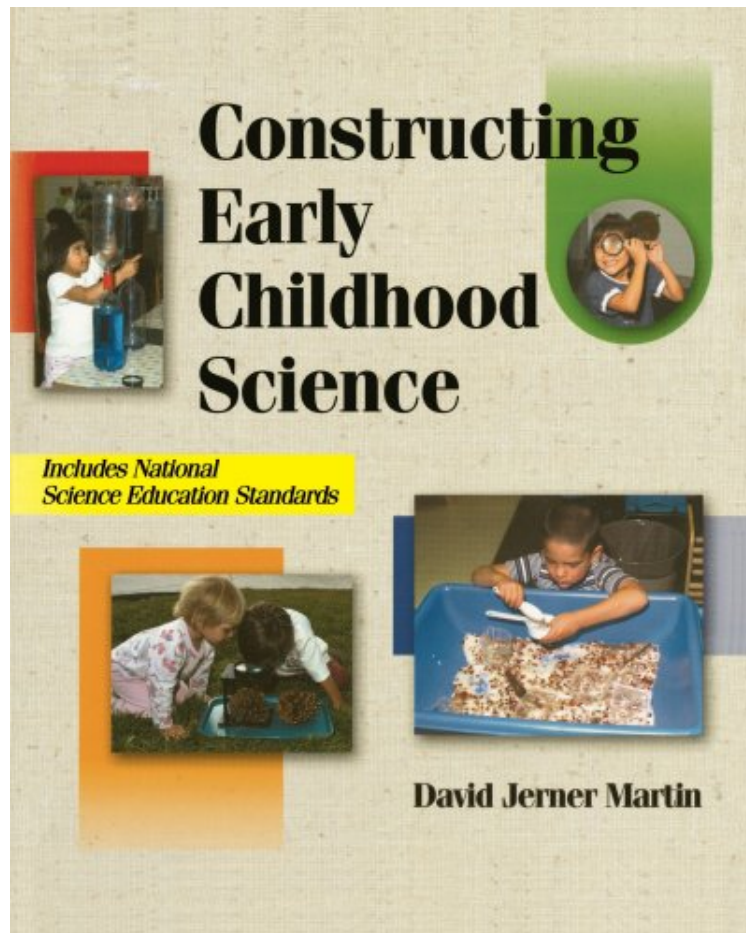


# Constructing Early Childhood Science

*David Jerner Martin*

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**David Jerner Martin : Constructing Early Childhood Science** before purchasing it in order to gage whether or not it would be worth my time, and all praised Constructing Early Childhood Science:

"Constructing Early Childhood Science" provides early childhood education students with a comprehensive hands-on guide to science education. This is a contemporary, practical methods text that maintains student involvement as an integral part of the course. More than 100 open-ended activities are offered for children ages 3 to 8, most of which provide references to aid teachers in developing an interdisciplinary approach to instruction. Citing the most contemporary publications on each topic, it includes chapters such as technology, multiculturalism, learner differences and the involvement of parents and community in science education. Appendices contain a listing of sources for free and inexpensive science materials, as well as referenced activities and cited children's literature. This text follows National Science Education Standards and the principles of Developmentally Appropriate Practice, as outlined by the

## National Association for the Education of Young Children

Preface, Acknowledgments, To the Student, Chapter 1: Constructing Goals for Early Childhood Science Education. Chapter 2: The Basic Scientific Processes: Observing. Chapter 3: The Basic Scientific Processes: Classifying. Chapter 4: The Basic Scientific Processes: Communicating. Chapter 5: The Basic Scientific Processes: Measuring. Chapter 6: The Basic Scientific Processes: Predicting. Chapter 7: The Basic Scientific processes: Inferring. Chapter 8: The Process-Oriented Objective. Chapter 9: The Integrated Scientific Processes: Identifying and Controlling Variables. Chapter 10: The Integrated Scientific Processes: Formulating and Testing Hypotheses. Chapter 11: The Integrated Scientific Processes: Defining Operationally. Chapter 12: The Integrated Scientific Processes: Interpreting Data. Chapter 13: The Integrated Scientific Processes: Experimenting. Chapter 14: The Integrated scientific Processes: Constructing Models. Chapter 15: Constructivism. Chapter 16: Process-Oriented Inquiry. Chapter 17: Learner Differences. Chapter 18: Assessment. Chapter 19: The Early Childhood Science Education Classroom. Chapter 20: Science Beyond the Classroom. Chapter 21: Technology in Early Childhood Science Education. Chapter 22: Reading, Writing, and Science. Chapter 23: Interdisciplinary Integration. Chapter 24: The Early Childhood Science Education Professional. Appendix 1: Selected Sources of Free and Inexpensive Materials. Appendix 2: Materials for a well-Equipped Early Childhood Science Classroom. Appendix 3: Activities Cross-Referenced to content standards of the National Science Education Standards. Appendix 4: Listing of Children's Literature Cited.

About the Author David Jerner Martin (Ph.D.) is Professor Emeritus of Early Childhood Education at Kennesaw State University. A gifted teacher and an outspoken advocate of constructivist-based teaching, he is best known as the author of the pioneering text, *ELEMENTARY SCIENCE METHODS: A CONSTRUCTIVIST APPROACH*, now in its Sixth Edition. Dr. Martin has consulted on constructivist teaching at home and abroad, and was technical consultant with The Weather Channel for The Weather Classroom. He has received several university awards for distinguished teaching and publications.