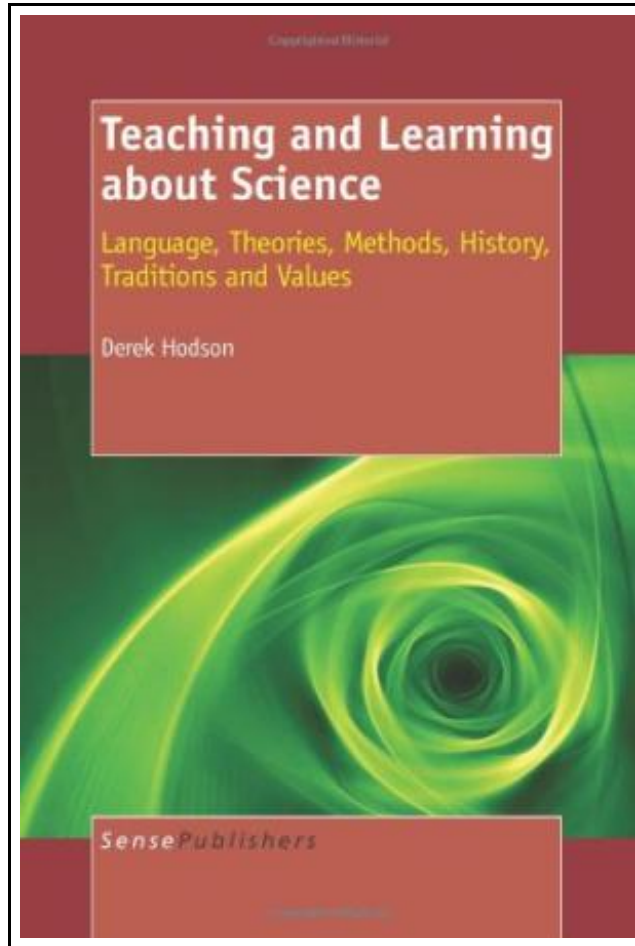


Teaching and Learning about Science



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Reviews

This publication is definitely not simple to begin on studying but really exciting to read. It is actually rally fascinating throug reading time. Your life span will be enhance when you complete looking at this publication.

(Laurence Littel)

TEACHING AND LEARNING ABOUT SCIENCE



Sense Publishers, United States, 2009. Paperback. Book Condition: New. 232 x 154 mm. Language: English . Brand New Book ***** Print on Demand *****.Findings generated by recent research in science education, international debate on the guiding purposes of science education and the nature of scientific and technological literacy, official and semi-official reports on science education (including recommendations from prestigious organizations such as AAAS and UNESCO), and concerns expressed by scientists, environmentalists and engineers about current science education provision and the continuing low levels of scientific attainment among the general population, have led to some radical re-thinking of the nature of the science curriculum. There has been a marked shift of rhetorical emphasis in the direction of considerations of the nature of science, model-based reasoning, inquiry-based learning, scientific argumentation and the use of language-rich learning experiences (reading, writing, talking) to enhance concept acquisition and development. These findings, arguments and pronouncements seem to point very clearly in the direction of regarding science education as a study of scientific practice. This book presents a comprehensive, research-based account of how such a vision could be assembled into a coherent curriculum and presented to students in ways that are meaningful, motivating and successful. The author takes what might be described as an anthropological approach in which scientists are studied as a socially, economically and politically important community of people. This group has its own distinctive language, body of knowledge, investigative methods, history, traditions, norms and values, each of which can be studied explicitly, systematically and reflectively. This particular approach was chosen for the powerful theoretical overview it provides and for its motivational value, especially for students from sociocultural groups currently under-served by science education and under-represented in science. The book, which is both timely and important, is written for teachers, student teachers, graduate students in...



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