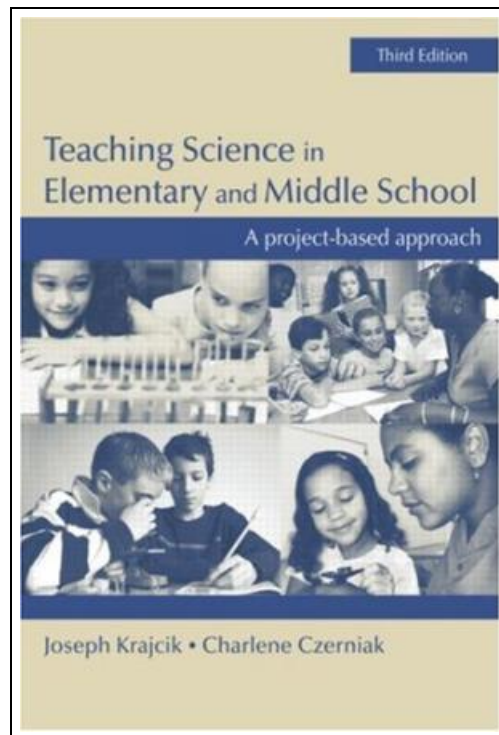


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Reviews

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TEACHING SCIENCE IN ELEMENTARY AND MIDDLE SCHOOL: A PROJECT-BASED APPROACH



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Taylor Francis Inc, United States, 2007. Paperback. Book Condition: New. 3rd Revised edition. 251 x 178 mm. Language: English . Brand New Book. The need for a scientifically literate population that can apply scientific ideas to solve real world problems in the 21st century has never been greater. Yet a growing disconnect exists between this need and the educational capacity to prepare them. The mission of Teaching Science in Elementary and Middle School: A Project-Based Approach, Third Edition is to help answer this need. Like its predecessors, this new edition is organized around the guiding principles of problem-based learning: long-term, interdisciplinary, student-centered lessons that are relevant to real-world issues and activities. This teaching approach engages all young learners - regardless of culture, race, or gender - in exploring important and meaningful questions through a process of investigation and collaboration. Throughout this dynamic process, students ask questions, make predictions, design investigations, collect and analyze data, make products, and share ideas. Changes in this new edition include the following: Stronger, more explicit connections between PBS, inquiry teaching, and the National Science Education standards. The theme of establishing the relevance of science to students lives has been expanded. It now includes attention to discrepant events, anchoring events, and experiencing phenomena in addition to its previous focus on driving questions. To help children understand that science is about explaining phenomena, a new chapter, Making Sense of Data, now follows the one on Designing and Carrying Out Investigations. Despite moving from 12 to 13 chapters, the book has been shortened and its readability increased by removing certain activities, tables, and forms to an Instructor s Resource Manual. A new section on the challenges of special needs and gifted students. The uses of technology in science teaching have been expanded to include such new devices as wireless...



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