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## Imaginative Science Education

By Yannis Hadzigeorgiou

Springer-Verlag GmbH Jun 2016, 2016. Buch. Condition: Neu. Neuware - This book is about imaginative approaches to teaching and learning school science. Its central premise is that science learning should reflect the nature of science, and therefore be approached as an imaginative/creative activity. As such, the book can be seen as an original contribution of ideas relating to imagination and creativity in science education. The approaches discussed in the book are storytelling, the experience of wonder, the development of 'romantic understanding', and creative science, including science through visual art, poetry and dramatization. However, given the perennial problem of how to engage students (of all ages) in science, the notion of 'aesthetic experience', and hence the possibility for students to have more holistic and fulfilling learning experiences through the aforementioned imaginative approaches, is also discussed. Each chapter provides an in-depth discussion of the theoretical background of a specific imaginative approach (e.g., storytelling, 'wonder-full' science), reviews the existing empirical evidence regarding its role in the learning process, and points out its implications for pedagogy and instructional practices. Examples from physical science illustrating its implementation in the classroom are also discussed. In distinguishing between 'participation in a science activity' and 'engagement with science ideas...



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