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Education : Science Education

Jorgensen, Robyn, Larkin, Kevin (Eds.)

STEM Education in the Junior Secondary

The State of Play

- Addresses key issues regarding STEM in Junior Secondary Education
- A comprehensive account that disambiguates the complex relationships between the issues in STEM education
- Addresses key issues in teacher knowledge/beliefs in STEM, which are important in recognising the complex issues leading to student withdrawal from and disengagement with STEM-related disciplines

This book brings together a collection of internationally renowned authors in the STEM field to share innovations in the teaching of STEM. It focuses on the junior secondary years of education (students aged 11-15), since this is the age range in which students choose whether or not to formally opt out of STEM education. It is here that the book makes a significant contribution to the field by integrating the STEM area and focusing on the junior years of schooling. While developing this book, the editors drew on two main premises: Firstly, STEM is seen as the integrated study of science, technology, engineering and mathematics in a coherent learning paradigm that is based on real-world applications. Secondly, it is important to integrate digital technologies into STEM education beyond the superficial use of ICTs seen in many schools. The book also addresses the challenges within STEM education – many of which are long-standing. To this end, it includes chapters on marginalised and diverse communities, ensuring that a broad range of perspectives on STEM education is included.

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