

Locating Technology Education in STEM Teaching and Learning Digitale Medien in Lehr-Lern-Laboren Wendy Fox-Turnbull Ronja Kürten

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this book offers clarity and consistency of thinking in relation to technology education when situated within a stem approach to teaching it examines the range of innovations and issues which are being considered by schools as they implement stem with particular focus on the place of technology or the t in stem the book is divided into three sections philosophy implementation and issues and innovations with each containing five to seven chapters the first section lays the foundations for the remainder of the book it focuses the readers on the technology aspect of stem education and situates it to align with the international understanding of technology education the second section provides insights into how stem is best implemented to give technology due consideration across a range of disciplines with technology education including engineering food technology and textile technology this section also provides suggestions for the successful implementation of the stem approach and offers further insight through a range of case studies the third section outlines and discusses a range of issues that pose a threat to the position and understanding of technology within the stem teaching and learning approach this section also examines how technology and stem are situated within are supported or are threatened by other current innovations and approaches to teaching an integrated curriculum such as the maker space movement and play based learning

lehr lern labore bieten studierenden die möglichkeit in authentischen komplexitätsreduzierten lernumgebungen professionelle kompetenzen zu entwickeln sie unterstützen studierende darin praktische erfahrungen mit lernenden zu sammeln lehr lern prozesse umfassend zu verstehen und erfolgreich zu gestalten dadurch bieten sie unter anderem eine gelegenheit der auseinandersetzung mit aktuellen herausforderungen des lehrberufs in diesem interdisziplinär angelegten band stehen professionelle kompetenzen die angehende lehrkräfte für die durch digitale medien unterstützte vermittlung von schülerkompetenzen in heterogenen lerngruppen benötigen im mittelpunkt die einzelnen fachbeiträge präsentieren die konzeptionen der lehr lern labore mit dem schwerpunkt der nutzung digitaler medien eine übergreifende evaluation liefert erkenntnisse zur entwicklung der selbstwirksamkeitserwartung der studierenden die an den lehr lern laboren teilnehmen alle beiträge basieren auf innovativen lehr lern laboren die im rahmen der qualitätsoffensive lehrerbildung am hochschulstandort münster weiter entwickelt wurden

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