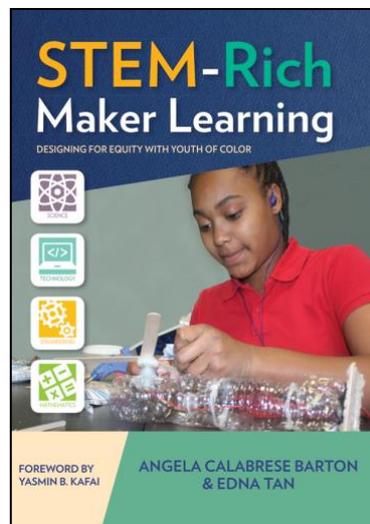


# STEM-Rich Maker Learning: Designing Equity with Youth of Color

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**Date Available:** July 2019  
**ISBN:** 978 1 76056 679 1  
**Code/SKU:** TCP6791  
**RRP:** \$39.95  
**Format/Page No.:** B5, 192 pages  
**Year Level:** Teachers and Administrators  
**Focus Area:** Professional Development  
**Key Learning Area:** Cross-Curricular, Science, Mathematics, Technologies



## Summary

In recent years, maker-centred learning has emerged in schools and other spaces as a promising new phase of STEM education reform. With a sharp focus on equity, the authors investigate community-based STEM-making programs to determine whether, and how, they can address the educational needs of youth of colour.

The authors explore what it means for youth to engage in making with the explicit goal of addressing injustices in their lives. The text features longitudinal ethnographic data and compelling examples that show how youth of colour from low-income backgrounds innovate and make usable artefacts to improve their lives and their communities. This book is essential reading for anyone interested in the theory and practice of making, STEM learning with adolescents and equity in both formal and informal educational settings.

### *STEM-Rich Maker Learning:*

- expands the current making landscape to include urban communities whose resources have not customarily accommodated such an innovative approach
- follows youth in two different community-based making spaces to unpack how this type of learning environment supports STEM experiences, and to what end
- explores the opportunities and tensions inherent in a community-based making space, such as community centres and youth organisations.

## Other Resources

- *Building a K–12 STEM Lab: A Step-by-Step Guide for School Leaders and Tech Coaches* (IST8108)
- *Beyond the Egg Drop: Infusing Engineering into High School Physics* (NST7545)
- *Could You Live Underwater? A Design Thinking and STEM Curriculum Unit for Curious Learners* (PRU6717)