Teaching STEM in the Preschool Classroom: 
Exploring Big Ideas with 3- to 5-Year-Olds

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Date Available: September 2019  
ISBN: 978 1 76094016 4  
Code/SKU: TCP0164  
RRP: $34.95  
Format/Page No.: B5, 142 pages  
Year Level: Early Learning, Teachers and Administrators  
Focus Area: Inquiry Learning, Professional Development  
Key Learning Area: Mathematics, Science, Technologies

Summary

This book is designed to build educators’ confidence and competence so they can bring STEM to life with young children. The authors encourage preschool teachers to discover the value of engaging preschoolers in scientific inquiry, technological exploration, engineering challenges and maths experiences based on learning trajectories. They explain the big ideas in STEM, emphasising teaching strategies that support these activities (such as language-rich STEM interactions), and describe ways to integrate concepts across disciplines. The text features research-based resources, examples of field-tested activities and highlights from the classroom.

Drawing from a professional development model that was developed with funding from the National Science Foundation, this book is an essential resource for anyone who wants to support preschool children to be STEM thinkers and doers.

Other Resources

- Picture-Perfect STEM Lessons, F–2: Using Children’s Books to Inspire STEM Learning (NST3646)
- Picture-Perfect STEM Lessons, 3–5: Using Children’s Books to Inspire STEM Learning (NST3639)
- Bring STEM to the Elementary Classroom (NST0461)
- Engineer This! 10 Amazing Projects for Young Mechanical Engineers (PRU9723)