



Teaching Engineering Made Easy: A Friendly Introduction to Engineering Activities for Middle School Teachers (Second Edition)

Celeste Baine, Cathi Cox-Boniol

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In this second edition of *Teaching Engineering Made Easy: A Friendly Introduction to Engineering Activities for Middle School Teachers*, Celeste Baine and Cathi Cox-Boniol have revised, updated and improved their must-have resource for middle school teachers. This easy and exciting time and work saving book was developed to help middle and high school teachers with no engineering background teach engineering. It offers a ready collection of projects, lessons and activities to help teachers stimulate student s thought processes and get them thinking like an engineer. By using this teaching guide, students can see that engineering is not something to be afraid of but a realistic way to solve the problems of everyday life.

Teaching Engineering Made Easy gives classroom teachers an easy and dynamic way to meet curriculum standards and competencies. You ll find the lessons and activities to actively engage students in learning about engineering and our technological world by applying creativity and innovation as they complete the projects. The activities do not require a formal science lab and can be done with materials that are inexpensive and easy to find.

This updated edition is divided into five units:

1. Team Building
2. Problem Solving
3. Chemical Engineering
4. Mechanical Engineering and
5. Civil Engineering.

Each lesson includes background information, ITEEA and NSTA Standards Alignment, a list of materials needed to complete the activity, an easy-to-follow procedure for presenting the lesson, teacher notes, reproducible student sheets, and safety notes. Activities range from 20 minute problem solving exercises to several class period design or challenge activities.

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