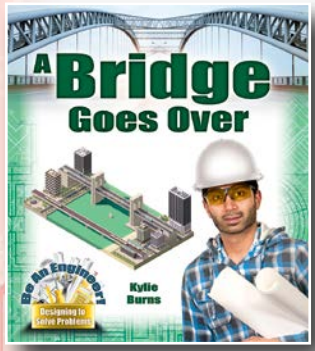
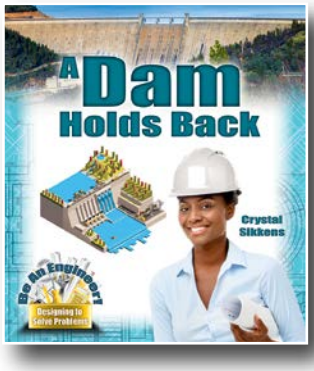
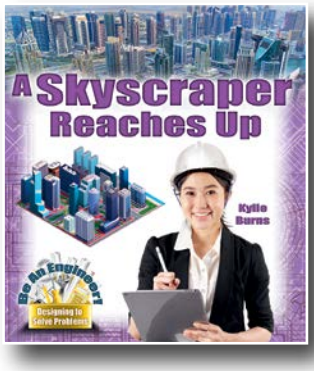
The **Be an Engineer!** series explains how different structures are designed by engineers to solve problems. Each title takes readers through the steps in the process to explain how an everyday structure is designed to overcome physical obstacles to meet peoples' needs. Readers design and create their own model structures.

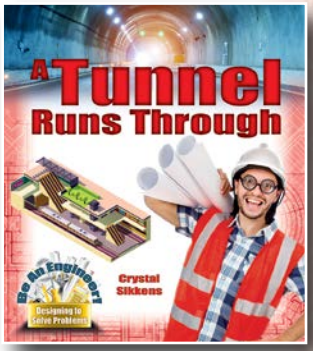
A link printed inside each book gives readers access to Crabtree Plus, a secure website with supplemental digital content, including engaging simulations and interactive activities that reinforce and extend key series' concepts.

Specifications:
Ages 7-10
24 pages, 8½ x 9½", full color
$7.95 PAP









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Engineers design bridges to help solve the challenges of barriers that block the movement of people. Young readers will learn about the steps in the engineering design process and see how different types of bridges suit different types of obstacles. They will also discover what materials are used in construction to make bridges stable. A link to interactive activities online plus an activity in the book allow readers to create bridges that stand up to the forces of extreme weather and natural disasters.

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CRABTREE Plus
Interactive Learning Beyond the Cover!

From **A Dam Holds Back**

What Is an Engineer?

Are you the problem solver in your group? Do you enjoy finding ways of getting around **obstacles**? You sound like an engineer! An engineer is a person who uses math, science, and creative thinking to design things that solve problems and meet needs.

Different kinds

Different kinds of problems require engineers with different knowledge. The design and construction of buildings and structures requires a team of engineers. Each engineer focuses on a certain part of the problem to be solved. This book deals with the design and building of dams.

These engineers are inspecting a dam. A dam is a structure built across a river to hold back and collect the water.

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