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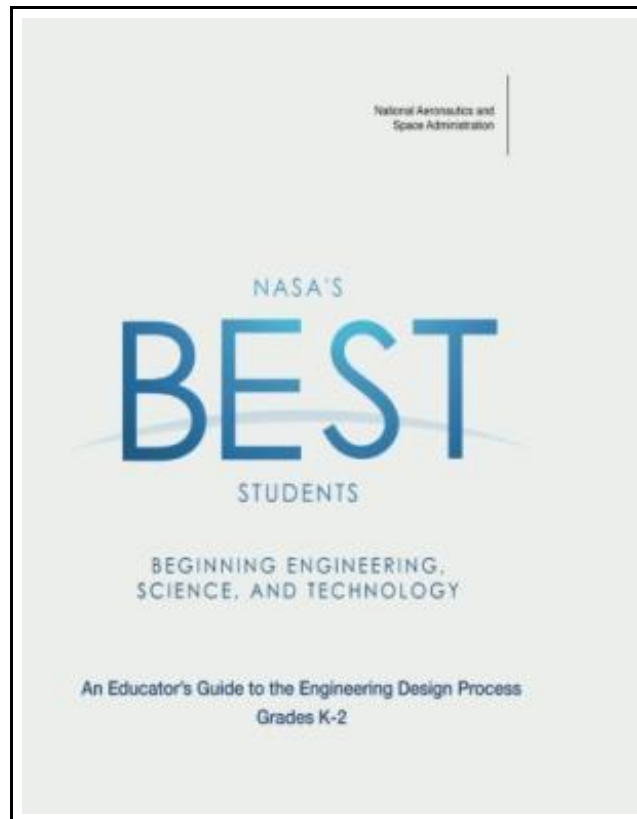

National Aeronautics and Space Administration

NASA'S

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STUDENTS

BEGINNING ENGINEERING, SCIENCE, AND TECHNOLOGY

An Educator's Guide to the Engineering Design Process
Grades K-2

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Reviews

Unquestionably, this is the greatest job by any author. It really is simplistic but shocks inside the fifty percent in the book. I am just pleased to inform you that here is the greatest book i actually have go through within my own existence and could be he greatest ebook for at any time.
(Elva Kemmer)

NASA S BEST STUDENTS - BEGINNING ENGINEERING, SCIENCE, AND TECHNOLOGY: AN EDUCATOR S GUIDE TO THE ENGINEERING DESIGN PROCESS GRADES K-2

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Createspace, United States, 2013. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.The NASA BEST Activities Guide has been developed by a team from the NASA Goddard Space Flight Center s Office of Education in support of NASA s Exploration Systems Mission Directorate (ESMD). ESMD develops capabilities and supporting research and technology that will make human and robotic exploration possible. It also makes sure that our astronaut explorers are safe, healthy, and can perform their work during long-duration space exploration. ESMD does this by developing robotic precursor missions, human transportation elements, and life-support systems. Ultimately, this Directorate of NASA serves as a stepping stone for the future exploration of Mars and other destinations. The NASA BEST Activities Guides were designed to teach students the Engineering Design Process. Our team created three guides to accommodate three grade groups: K-2, 3-5 and 6-8. All follow the same set of activities and teach students about humans endeavor to return to the Moon. Specifically, how we investigate the Moon remotely, the modes of transportation to and on the Moon, and how humans will live and work on the Moon. The Engineering Design Process is a series of steps engineers use to guide them in problem solving. Engineers must ask a question, imagine a solution, plan a design, create that model, experiment and test that model, then take time to improve the original - all steps that are crucial to mission success at NASA. What makes this guide different from others is: (1) there are no specific instructions or recipes for building the items; and (2) there are no given drawings. The emphasis is for students to understand that engineers must imagine and plan before they begin to build and experiment. To successfully complete the...

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