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**To get the most out of your
college education, you need
to choose your classes**

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**wisely -- and increasingly,
that means choosing STEM.
Today's job seekers should
have at least a basic
understanding of
trigonometry and other
science, technology,**

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engineering, and math (STEM) fields. The U.S. Bureau of Labor Statistics projects more than 1.3 million job openings in math and computer-related fields by 2022. The purpose of this

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book is not to push you into a STEM career; it is simply to provide you with information and perspective, as well as a few questions that, if answered honestly, will help you plot out an

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**educational and career
pathway that will help you
achieve your dreams.**

**PRINCIPLES OF
ENGINEERING will help your
students better understand
the engineering concepts,**

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mathematics, and scientific principles that form the foundation of the Project Lead the Way (PLTW) Principles Of Engineering course. Important concepts and processes are explained

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throughout using full-color photographs and illustrations. Appropriate for high school students, the mathematics covered includes algebra and trigonometry. The strong

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**pedagogical features to aid
comprehension include:
Case Studies, boxed articles
such as Fun Facts and Points
of Interest, Your Turn
activities, suggestions for
Off-Road Exploration,**

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**connections to STEM
concepts, Career Profiles,
Design Briefs, and example
pages from Engineers'
Notebooks. Each chapter
concludes with questions
designed to test your**

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students' knowledge of information presented in the chapter, along with a hands-on challenge or exercise that compliments the content and lends itself to exploration in the

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classroom. Key vocabulary terms that align with those contained in the PLTW POE course are highlighted throughout the book and emphasized in margin definitions. Important

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"Entrepreneurs - Leading

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the Way" is a book that offers a beginner guide for entrepreneurs that can assist them with the various aspects of entrepreneurship. Curriculums for STEM education programs have

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been successfully implemented into numerous school systems for many years. Recently, the integration of arts education into such programs has proven to be significantly

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**beneficial to students,
resulting in a new method of
teaching including science,
technology, engineering,
art, and mathematics. Cases
on STEAM Education in
Practice is an essential**

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research publication for the latest scholarly information on curriculum development, instructional design, and educational benefits of STEAM learning initiatives. Featuring coverage on a

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range of topics including fine arts, differentiated instruction, and student engagement, this book is ideally designed for academicians, researchers, and professionals seeking

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**current research on the
implementation of STEAM
education.**

**Engineering in Pre-College
Settings**

**Entrepreneurs - Leading the
Way**

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**The Case for STEM
Education
Without a Margin for Error
The Teacher's Getting-
Started Guide
13th International
Conference on AI,**

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**Simulation, and Planning in
High Autonomy Systems, AIS
2004, Jeju Island, Korea,
October 4-6, 2004, Revised
Selected Papers
Hearing Before the
Subcommittee on Research**

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**and Science Education,
Committee on Science and
Technology, House of
Representatives, One
Hundred Eleventh Congress,
First Session, October 22,
2009**

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"If you are interested in STEM education, policies, programs or practices, or you work on STEM in some capacity at any level, The case for STEM education will prove to be valuable

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reading. Author Rodger W. Bybee has written this book to inspire individuals in leadership roles to better understand and take action on STEM initiatives. The book's 10 chapters

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**accomplish several tasks:
Put STEM in context by
outlining the challenges
facing STEM education,
drawing lessons from the
Sputnik moment of the
1950s and 1960s, and**

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**contrasting contemporary
STEM with other education
reforms; Explore
appropriate roles for the
federal government, as well
as states, districts, and
individual schools; Offer**

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several ideas and recommendations you can use to develop action plans for STEM. With an emphasis on both thinking and acting, The case for STEM education is a must-read

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**for leaders at all levels:
national and state policy
makers, state-level
educators responsible for
STEM initiatives, college
and university faculty who
educate future STEM**

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teachers, local administrators who make decisions about district and school programs, and teachers who represent STEM disciplines." - Back cover.

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Heyman chronicles the journeys of young adults in an under-served urban community who are new to the English language into STEM fields from high school through college in

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an effort to change the equation of who should be considered a legitimate contender for success in STEM fields.

Empower tomorrow's tech innovators Our students

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are avid users and consumers of technology. Isn't it time that they see themselves as the next technological innovators, too? Computational Thinking and Coding for

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**Every Student is the
beginner's guide for K-12
educators who want to
learn to integrate the
basics of computer science
into their curriculum.
Readers will find Strategies**

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**and activities for teaching
computational thinking and
coding inside and outside
of school, at any grade
level, across disciplines
Instruction-ready lessons
for every grade A**

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**discussion guide and
companion website with
videos, activities, and other
resources**

**The addition of the arts to
STEM education, now
known as STEAM, adds a**

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new dimension to problem-solving within those fields, offering students tools such as imagination and resourcefulness to incorporate into their designs. However, the shift

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**from STEM to STEAM has
changed what it means for
students to learn within
and across these
disciplines. Redesigning
curricula to include the arts
is the next step in**

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**preparing students
throughout all levels of
education. Challenges and
Opportunities for
Transforming From STEM to
STEAM Education is a
pivotal reference source**

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**that examines the
challenges and
opportunities presented in
redesigning STEM
education to include
creativity, innovation, and
design from the arts**

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**including new approaches
to STEAM and their
practical applications in the
classroom. While
highlighting topics
including curriculum
design, teacher**

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**preparation, and PreK-20
education, this book is
ideally designed for
teachers, curriculum
developers, instructional
designers, deans, museum
educators, policymakers,**

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**administrators,
researchers, academicians,
and students.**

**Educating the Net
Generation
The STEM Coaching
Handbook**

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**Dream Differently
Workbook for Karsnitz/O'Brien/Hutchinson's
Engineering Design: An
Introduction, 2nd
Engineering in K-12
Education**

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**Working with Teachers to
Improve Instruction
Sustainable Project-Based
Learning**

• *New York Times* bestseller • *The
100 most substantive solutions to
reverse global warming, based on*

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meticulous research by leading scientists and policymakers around the world “At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an

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effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope.” —Per Espen

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Stoknes, Author, What We Think About When We Try Not To Think About Global Warming “There’s been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single,

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*comprehensive, reliable
compendium of carbon-reduction
solutions across sectors. At least
until now. . . . The public is hungry
for this kind of practical wisdom.”*
—David Roberts, Vox “This is the
ideal environmental sciences

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textbook—only it is too interesting and inspiring to be called a textbook.” —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of

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researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never

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heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world

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are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth's warming but to reach drawdown, that point in time

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when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an

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opportunity to create a just and livable world.

*Strengthen your understanding of database management today with the hands-on, thorough presentation found in **CONCEPTS OF***

DATABASE MANAGEMENT, 10th

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Edition. Real cases, practical examples and helpful screenshots with concise explanations clarify database design, data integrity, normalization, concurrent updates, data security and big data.

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Microsoft Access 2019, Office 365 standards and SQL Server 2019, while exploring SQL in a database-neutral environment. Detailed coverage presents the relational model (including QBE and SQL), normalization and views as well as

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database administration and management. You also examine advanced topics, such as distributed databases, data warehouses, stored procedures, triggers, data macros and Web Apps. Trust this contemporary introduction to help

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you master today's database techniques to advance your career in any field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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*Workbook for
Matteson/Kennedy/Baur's Project
Lead the Way: Civil Engineering
and Architecture Cengage Learning
In science, technology, engineering,
and mathematics (STEM) education
in pre-college, engineering is not the*

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silent “e” anymore. There is an accelerated interest in teaching engineering in all grade levels. Structured engineering programs are emerging in schools as well as in out-of-school settings. Over the last ten years, the number of states

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in the US including engineering in their K–12 standards has tripled, and this trend will continue to grow with the adoption of the Next Generation Science Standards. The interest in pre-college engineering education stems from three different

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motivations. Designed to be a source of background and inspiration for researchers and practitioners alike, this volume includes contributions on policy, synthesis studies, and research studies to catalyze and inform

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current efforts to improve pre-college engineering education. The book explores teacher learning and practices, as well as how student learning occurs in both formal settings, such as classrooms, and informal settings, such as homes and

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museums. This volume also includes chapters on assessing design and creativity.

*Workbook for
Matteson/Kennedy/Baur's Project
Lead the Way: Civil Engineering
and Architecture*

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*An Introduction to the Basics of
Project Management and Project
Team Leadership
Understanding the Status and
Improving the Prospects
Artificial Intelligence and
Simulation*

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*How to Engage Students in the 21st
Century*

*Full STEAM Ahead: Science,
Technology, Engineering, Art, and
Mathematics in Library Programs
and Collections*

US Black Engineer & IT

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***"John Rhodes'
Videoconferencing for the Real
World, is a one of the world's
most comprehensive
blueprints on the awesome
power of videoconferencing."
From the Foreword by Brad***

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***Caldwell Chairman ICIA and
President of Integrated Media
Services, Anaheim, CA***

***Designed to be useful to both
technical and non-technical
managers, Video-Conferencing
for the Real World demystifies***

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the subject of video communications. It provides easy-to-follow guidelines for deploying a cost-effective video-conferencing solution tailored to an organization's specific needs. Developed to

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***flexible to the readers need,
Video Conferencing for the
Real World offers dynamic
problem-solving techniques for
the communication challenges
facing managers today.
Examining the technical,***

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economic, and organizational aspects of each requirement and solution, this book offers a sound base of technical information and provides practical solutions based on a wealth of professional

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experience. Combining his own ideas with the input of system managers and users, service providers, consultants, and manufacturers, the author has developed a guide that will help readers make more

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informed investments of their time and money. Special attention is paid to conducting an effective needs analysis, and the development of solutions that will adapt easily to future changes in

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organizational requirements. Covering a variety of solutions, this book explores the advantages and disadvantages of desktop systems, set-top systems, rollabout systems, and room

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systems. In addition to compression, multipoint conferencing and data conferencing, this book also addresses topics such as, pilot projects, the preparation of RFPs, service contracts,

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training, content creation, and convergence.

People play a vital part in the success of projects, initiatives and organisations, yet traditional project management sources offer

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limited guidance and insights that extend beyond technical roles and prescriptions.

Leading the Project Revolution delves into the dynamics of people, teams and organisations exploring their

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impact on leadership, strategy, success and achievement. The book offers a progressive agenda for improving project practice, enabling the dialogue to advance from the typical

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***coverage of static toolsets
towards an understanding of
flexible mindsets. Flexibility,
agility and resilience are
addressed as the social,
cultural and complexity
dimensions of leadership,***

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strategy, organisations and project execution are examined and practical insights are synthesised into pragmatic models and frameworks. The volume brings together some of the

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***best writing by leading
authorities on teams,
leadership, corporate culture,
human behaviour,
organisational dynamics,
psychology, complexity,
strategy, execution,***

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***innovation, social media and
decision sourcing.***

***Written by librarians who have
experience with integrating
technology into all subject
areas and working with teens
and young adults, this book is***

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a toolkit for youth and young adult librarians—school and public—who wish to incorporate science, technology, engineering, art, and math (STEAM) into their programs and collections but

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aren't sure where to begin. • Provides school and public librarians with the resources and clear guidance they need to implement STEAM programs and collections at their libraries • Places librarians in

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***a key position—based on
knowledge and ability—with
STEAM initiatives in their
school and community •
Connects STEAM programming
to national standards •
Explains how to secure funding***

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***and find partners to
collaborate in STEAM
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product text may not be
available in the ebook version.***

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***Cases on STEAM Education in
Practice***

***The Most Comprehensive Plan
Ever Proposed to Reverse
Global Warming***

***The Socially Intelligent Project
Manager***

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***Connecting Self-regulated
Learning and Performance
with Instruction Across High
School Content Areas
Leading the Project Revolution
Intro T/Engineering Dsgn-
Solutions Mnl***

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***Hearing Before the
Subcommittee on Technology,
Innovation, and
Competitiveness of the
Committee on Commerce,
Science, and Transportation,
United States Senate, One***

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***Hundred Ninth Congress,
Second Session, April 26, 2006***

This book is a must-read for anyone responsible for projects and initiatives that span functional and geographical divides. Authors Moran and

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Youngdahl bring extensive experience and learning from industry practice to present a clear and straightforward treatment of the leadership skills and knowledge required to lead projects that are global

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in nature. They have written the first book of its kind to address the three essential skills of global project leaders - strategic project management, project leadership, and cross-cultural

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leadership. The authors argue that global project leadership is an essential skill in our project-based world and that we are all either intentional or accidental project leaders. Intentional project leaders

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**pursue formal project
management education and
even certification whereas
accidental project leaders find
themselves leading global
project and initiatives as a
result of a special assignment**

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or promotion. Moran and Youndahl have found that the vast majority of global projects leaders fall into the accidental category and have written the book to be accessible to those who have not necessarily

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pursued formal project management education. Experienced intentional project managers can skip the single chapter on project management fundamentals to move to the more advanced

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chapters addressing topics such as influencing without formal authority across functional and geographical boundaries and leading global projects at the edge of crisis. • The only book that combines

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themes of strategic project management, project leadership and cross-cultural leadership • Rich with examples and stories to illustrate key skills and knowledge required to lead

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global projects

A complex world surrounds the project team. Led by a project manager and judged by the board of directors, executives, customers, and employees, it would be tempting to ask why

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anyone would choose to work within such an environment, let alone encourage and lead the organization on a potentially perilous road. The answer is simple - there is great joy in working with the

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talented and able participants engaged in a project while pursuing and satisfying the organization's needs.

Prescribed procedures are part of project management. It is these procedures that provide

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stepping stones from where we are today and what we want and expect to be tomorrow. Many procedures and best practices are based on A Guide to the Project Management Body of Knowledge and ISO

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21500, Guidance on Project Management. These guides provide best practices and international standards as well as frameworks that are coupled with steps that should be followed to effectively

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implement the best practices. However, neither guide discusses how to ensure that people will welcome the results of a project with open arms and embrace wholeheartedly the impact that has been

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imposed on them. Since people are involved in these projects, their behavior and well-being must be provided for - especially when environmental and procedural changes are being made. Ignoring the

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psychological and emotional impact on people may result in project failure. It is the project manager's responsibility to examine, understand, and implement best practices, determine the level at which a

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best practice is used, and accommodate the physical and mental needs of people affected by the projects. This essential guide shares a five-step process for designing, implementing, and assessing

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sustainable project-based learning (SPBL) units while ensuring students gain surface-, deep-, and transfer-level knowledge. Brad Sever draws from his daily work as a practitioner to deliver

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**practical strategies for
creating meaningful learning
experiences that join academic
growth with social-emotional
skill development—all
supported by the power of
professional learning**

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communities. Use this book to help increase authentic learning for your students: Learn the benefits of project-based learning (PBL) and social-emotional learning (SEL) to student growth and

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academic achievement. Access a five-step process for planning, integrating, and sustaining a comprehensive SPBL framework in your curriculum. Receive reproducible tools and

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templates you can use independently or collaboratively to maximize student engagement and learning. Reflect with end-of-chapter questions to enhance your understanding of the

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content. Understand how to promote transfer learning skills through connections to real-world experiences.

**Contents: Introduction Part I:
The What and Why of
Sustainable Project-Based**

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**Learning Chapter 1: Defining
Sustainable Project-Based
Learning Chapter 2: Reviewing
the Seven PBL Design
Elements Chapter 3:
Maintaining a Sustainable
Relationship With Project-**

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**Based Learning Chapter 4:
Integrating Social and
Emotional Learning Into SPBL
Units Part II: The How of
Sustainable Project-Based
Learning Chapter 5: Step 1
Planning the SBPL Unit**

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**Chapter 6: Step 2 Developing
SPBL Assessments Chapter 7:
Step 3 Establishing a Clear
Goal for Student Learning
Chapter 8: Step 4 Conducting
Teacher Action Research
Chapter 9: Step 5 Reflecting,**

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**Refining, and Celebrating
Chapter 10: Transferring
Learning Through Three
Simultaneous Experiences
Appendix A: Glossary of Key
Terms Appendix B: Protocol
Library Appendix C: Example**

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**SPBL Unit Plans References
and Resources Index**

STEAM education can be described in two ways. One model emphasizes the arts and is not as concerned about the accuracy of the STEM fields. In

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the second model, STEM content is the prevailing force with a focus on accuracy, and the arts are used in limited and secondary resources for the teaching of the content. However, in order to promote

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**creative thinking, allow for
higher student engagement,
and offer a more well-rounded
education, a STEAM model,
where science, technology,
engineering, arts, and
mathematics are equal**

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contributors to the process of learning, is needed. Cases on Models and Methods for STEAM Education is an important scholarly resource that provides inclusive models and case studies highlighting

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**best techniques and practices
for implementing STEAM
models in teaching and assists
teachers as they learn to use
such methods through the
inclusion of practical activities
for use in the classroom.**

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Highlighting a wide range of topics such as science education, fine arts, and teaching models, this book is essential for educators, administrators, curriculum developers, instructional

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**designers, policymakers,
academicians, researchers, and
students.**

Concepts of Database

Management

Principles of Engineering

Workbook for

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**Handley/Coon/Marshall's
Project Lead the
Way/Principles of Engineering
The Role of the National
Science Foundation in K-12
Science and Math Education
Project Lead the Way**

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**Hearing Before the Committee
on Science, House of
Representatives, One Hundred
Ninth Congress, Second
Session, May 3, 2006
Five Steps for Designing
Authentic Classroom**

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**Experiences in Grades 5-12
(An instructional framework
for developing ongoing project-
based learning tasks and
units)**

Learn how to promote STEM integration
in your school district and increase student

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achievement. In this helpful, easy-to-read book, author Terry Talley sheds light on the key responsibilities and accountabilities of a successful STEM coach and offers a wealth of practical advice for those new to the position and for those who want to refine their skills. You'll discover how to...
Build positive working relationships with

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teachers and faculty Organize professional development opportunities such as PLCs and book study groups Develop hands-on instructional strategies based off the needs of your students and the strengths of your staff Promote technological and scientific literacy to prepare students for success in the 21st Century Enhance student

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engagement using project-based learning and growth-based assessment models. Designed to be read either as a step-by-step guide or as a reference, *The STEM Coaching Handbook* is loaded with insights and accounts from experienced STEM educators across the country. No matter your level of expertise, these tips will help

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you make your district's STEM program more effective for all students.

Educating the Net Generation: How to Engage Students in the 21st Century addresses the national problem of escalating high-school dropout rates and student disengagement, and offers solutions as to how to best involve students

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of the millennial generation. The book examines the unique characteristics of the Net Generation and explains how the educational expectations and needs of the Net Generation differ from their Gen-X parents and Baby Boomer grandparents. It also looks at why many students resist engaging in formalized education in

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schools and ultimately drop out. Chapters featuring student interviews and photographs synthesize the perspectives of current high school students regarding their experiences, beliefs, and thoughts on learning, while a parallel set of parent interviews reveals what parents feel is important in their child's education and

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how they would like to see schools engage their children in learning.

Recommendations for changes in school policy and the financial investment critical to turning the situation around are also included, along with an inventory/ checklist for parents, teachers, and school administrators to determine if their

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individual school environment has what it takes to keep students motivated and engaged.

Engineering education is emerging as an important component of US K-12 education. Across the country, students in classrooms and after- and out-of-school programs are participating in hands-on,

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problem-focused learning activities using the engineering design process. These experiences can be engaging; support learning in other areas, such as science and mathematics; and provide a window into the important role of engineering in society. As the landscape of K-12 engineering education continues to grow

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and evolve, educators, administrators, and policy makers should consider the capacity of the US education system to meet current and anticipated needs for K-12 teachers of engineering. Building Capacity for Teaching Engineering in K-12 Education reviews existing curricula and programs as well as related research to understand

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current and anticipated future needs for engineering-literate K-12 educators in the United States and determine how these needs might be addressed. Key topics in this report include the preparation of K-12 engineering educators, professional pathways for K-12 engineering educators, and the role of higher education in

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preparing engineering educators. This report proposes steps that stakeholders - including professional development providers, postsecondary preservice education programs, postsecondary engineering and engineering technology programs, formal and informal educator credentialing organizations, and the

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education and learning sciences research communities - might take to increase the number, skill level, and confidence of K-12 teachers of engineering in the United States.

This book constitutes the refereed post-proceedings of the 13th International Conference on AI, Simulation, and

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Planning in High Autonomy Systems, AIS 2004, held in Jeju Island, Korea in October 2004. The 74 revised full papers presented together with 2 invited keynote papers were carefully reviewed and selected from 170 submissions; after the conference, the papers went through another round of revision. The papers are organized in

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topical sections on modeling and simulation methodologies, intelligent control, computer and network security, HLA and simulator interoperation, manufacturing, agent-based modeling, DEVS modeling and simulation, parallel and distributed modeling and simulation, mobile computer networks, Web-based

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simulation and natural systems, modeling and simulation environments, AI and simulation, component-based modeling, watermarking and semantics, graphics, visualization and animation, and business modeling.

Drawdown

H.R. 4496, the Vocational and Technical

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Education for the Future Act
Before and After the Project Starts
Challenges and Opportunities for
Transforming From STEM to STEAM
Education
Cases on Models and Methods for STEAM
Education
Enabling Organizational Goals While

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Preventing Disaster

Programs, Policies, and Practices in the
Community College

**As the U.S. focuses on
positioning itself to retain and
advance its status as a world
leader in technology and**

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scientific innovation, a recognition that community colleges are a critical site for intervention has become apparent. Community colleges serve the lion's share of the nation's postsecondary

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students. In fact, 40% of all undergraduate students are enrolled in community colleges, these students account for nearly 30% of all STEM undergraduate majors in postsecondary institutions.

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These students serve as a core element of the STEM pipeline into four-year colleges and universities via the community college transfer function. Moreover, community colleges are the

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primary postsecondary access point for non-traditional students, including students of color, first-generation, low-income, and adult students. This is a particularly salient point given that these

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populations are sordidly underrepresented among STEM graduates and in the STEM workforce. Increasing success among these populations can contribute significantly to advancing the

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nation's interests in STEM. As such, the community college is situated as an important site for innovative practices that have strong implications for bolstering the nation's production and sustenance of

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a STEM labor force. In recognition of this role, the National Science Foundation and private funding agencies have invested millions of dollars into research and programs designed to bolster

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the STEM pipeline. From this funding and other independently sponsored inquiry, promising programs, initiatives, and research recommendations have been identified. These efforts hold

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great promise for change, with the potential to transform the education and outcome of STEM students at all levels. This important book discusses many of these promising programs, initiatives, and

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**research-based
recommendations that can
impact the success of STEM
students in the community
college. This compilation is
timely, on the national
landscape, as the federal**

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government has placed increasing importance on improving STEM degree production as a strategy for America's future stability in an increasingly competitive global marketplace. Informed

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by research and theory, each chapter in this volume blazes new territory in articulating how community colleges can advance outcomes for students in STEM, particularly those from historically

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underrepresented and underserved communities. Engineering education in K-12 classrooms is a small but growing phenomenon that may have implications for engineering and also for the

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other STEM subjects--science, technology, and mathematics. Specifically, engineering education may improve student learning and achievement in science and mathematics, increase

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awareness of engineering and the work of engineers, boost youth interest in pursuing engineering as a career, and increase the technological literacy of all students. The teaching of STEM subjects in

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U.S. schools must be improved in order to retain U.S. competitiveness in the global economy and to develop a workforce with the knowledge and skills to address technical and

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technological issues.

**Engineering in K-12 Education
reviews the scope and impact
of engineering education
today and makes several
recommendations to address
curriculum, policy, and**

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funding issues. The book also analyzes a number of K-12 engineering curricula in depth and discusses what is known from the cognitive sciences about how children learn engineering-related concepts

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and skills. Engineering in K-12 Education will serve as a reference for science, technology, engineering, and math educators, policy makers, employers, and others concerned about the

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development of the country's technical workforce. The book will also prove useful to educational researchers, cognitive scientists, advocates for greater public understanding of engineering,

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and those working to boost technological and scientific literacy.

Mobile learning is a primary learning format in the education of young children from birth through 6th grade.

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This format has been found to have a positive impact on the academic achievement, self-efficacy, motivation, and learning attitudes of students, including those with special needs (Ciampa, 2014; Hwang,

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2014; Nikou & Economides, 2018; Xie, Basham, Marino & Rice, 2018). In both formal and informal learning contexts, mobile learning affords opportunities to innovate and explore new forms of

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**authentic experiences,
meaning-making, and
creativity with untethered
technology (Choi, Land, &
Zimmerman, 2018; Schuck,
Kearney & Burden, 2017). This
edited book acts as a**

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springboard to expand discussions surrounding how mobiles might best be situated in contexts relating to young children. With a focus on early childhood and elementary settings, this book both

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**expands the definition of
mobiles to encompass digital-
physical tools (e.g. Osmo,
probeware) and wearables. It
also provides insight into how
intentional integration of
mobiles supports the**

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development and practice of both in-service and preservice teachers working with students in early childhood and elementary settings.

Leading Project Teams offers an accessible introduction to

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the important basics of project management while providing key issues and pointers on team leadership. Easy to read, this engaging book assumes little to no knowledge of project management. Leading

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**Project Teams quickly leads
the reader through the
fundamentals including how to
start a project, how to assign
tasks, how to write clear
project reports, and much,
much more!**

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**Computational Thinking and
Coding for Every Student
Fostering Innovation in Math
and Science Education
Leading Project Teams
STEM Models of Success
Hearing Before the**

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**Subcommittee on Education
Reform of the Committee on
Education and the Workforce,
U.S. House of
Representatives, One Hundred
Eighth Congress, Second
Session, June 15, 2004**

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**Implementing Effective Visual
Communications Systems
Urban Immigrant English
Language Learners in STEM**
The student workbook will
help you succeed by
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**engineering design
activities and skill-
building exercises and
problems. Designed to
support Engineering Design:
An Introduction, this
important resource is full
of drawing and sketching**

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practice, brainstorming and team development exercises; and step-by-step procedures that will show you how to apply engineering concepts to open-ended design challenges. Important Notice: Media content

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This book shows how principles of self-regulated learning are being

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implemented in secondary classrooms. The 14 chapters are theoretically driven and supported by empirical research and address all common high school content areas. The book comprises 29 lesson plans in English

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language arts, natural and physical sciences, social studies, mathematics, foreign language, art, music, health, and physical education. Additionally, the chapters address students with special needs,

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technology, and homework. Each chapter begins with one or more lesson plans written by master teachers, followed by narratives explaining how the lesson plans were implemented. The chapters conclude with an analysis

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written by expert
researchers of the self-
regulated learning elements
in the lessons. Each lesson
and each analysis
incorporate relevant
educational standards for
that area. Different types

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of high schools in several states serve as venues. This powerful new book edited by Maria K. DiBenedetto provides a unique and invaluable resource for both secondary teachers and researchers committed to

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supporting adolescents in the development of academic self-regulation. Each chapter is jointly written by teachers who provide a wealth of materials, including lesson plans, and researchers who situate

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**these lesson plans and
academic self-regulation
goals within the larger work
on self-regulation. The
topics covered are far
broader than any other book
I have seen in terms of
developing academic self-**

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regulation, covering over a dozen content areas, including literacy, mathematics, social studies, the sciences, and the arts. Teachers and scholars alike will find this book a must read. Karen Harris, EdD,

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**Arizona State University A
practical and magnificent
blend of educational
research and application.
This book goes beyond
presenting the findings of
research on self regulation
by connecting detailed**

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strategies that align with the standards to the research. DiBenedetto et al. clearly illustrate how to develop self regulated learners in the classroom. A refreshing must read for all secondary educators and

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**educational researchers
seeking to be well grounded
in education research and
practical application
techniques. Heather
Brookman, PhD, Fusion
Academy- Park Avenue Self-
regulated learning is a**

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**research-based process by
which teachers help students
realize their own role in
the learning process.
Connecting Self-Regulated
Learning and Performance
with Instruction Across High
School Content Areas**

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consists of model teachers' lessons and analyses by prominent educational psychologists in the field of self-regulated learning. The book provides teachers with the tools needed to increase students' awareness

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of learning and inspires all educators to use self-regulated learning to promote engagement, motivation, and achievement in their students. The book also provides administrators with the principles needed

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**to infuse evidenced based
self-regulated learning into
their curriculum and
instruction. I highly
recommend the book! Marty
Richburg, Northside High
School**

This no-nonsense guide to

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social intelligence for project managers gives you a step-by-step process for building a bulletproof project team—no matter what gaps exist in personality, geography, culture, or communication style. High-

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**performing teams don't
happen by magic. You need
processes that are designed
in a socially intelligent
way if your team is going to
overcome the modern world's
tough challenges with
coordination. To be a star**

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project manager, you have to communicate with people in their individual learning styles, provide accountability in ways that won't be demotivating, and run meetings and minutes that people won't tune out.

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Your processes must be constructed in ways that respect the complex realities of social dynamics step by step. You have to know your team before you can motivate them, and you have to motivate them before

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you can manage them. In this book are foolproof techniques to make sure your team connects with you, each other, and everyone they need to get the job done. After all, a team should be more than the sum of its

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parts—and it's up to the project manager to provide the glue that holds it all together.

Peter DeJong and Insoo Kim Berg's **INTERVIEWING FOR SOLUTIONS** features a proven, solutions-oriented approach

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to basic interviewing that views clients as competent, helps them to visualize the changes they want, and builds on what they are already doing that works. Throughout the book, the authors present models for

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**solution-focused work,
illustrated by examples and
supported by research.
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Childhood and Elementary
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Policy, and Practices
Candid Advice for America's
Students
Challenges and Opportunities**