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Student Centered Investigative Labs for Middle School Science Help! I'm Teaching Middle School Science Focus on Middle School Chemistry Laboratory Workbook NSTA Guide to Planning School Science Facilities Computer Projects for Middle Schools Teaching Music with Technology STEM Labs for Middle Grades, Grades 5 - 8 Doing Good Science in Middle School, Expanded 2nd Edition The NSTA Ready-reference Guide to Safer Science Scheduling Strategies for Middle Schools How to Manage Your Middle School Classroom Teaching Middle School Physical Education Virtual Destinations and Student Learning in Middle School America's Lab Report The Manhattan Family Guide to Private Schools and Selective Public Schools, Seventh Edition Differentiated Instruction for the Middle School Science Teacher High school: a comprehensive manipulative program for algebra I Improving the laboratory experience for America's high school students Handbook of Research on Schools, Schooling and Human Development Qualitative Data Analysis The NSTA Ready-Reference Guide to Safer Science, Vol 2 Geometry Labs Advances in Human Factors in Training, Education, and Learning Sciences Teaching and Learning in the School Chemistry Laboratory Teaching Secondary and Middle School Mathematics Innovative Techniques in Instruction Technology, E-learning, E-assessment and Education Math Games Lab for Kids Educational Media and Technology Yearbook New York City's Best Public Middle Schools The Impact of the Laboratory and Technology on Learning and Teaching Science K-16 Science Educator's Guide to Laboratory Assessment Pathways to Excellence DHEW Publication No. (OE). Urban Forestry Laboratory Exercises for Elementary, Middle and High School Students The Exemplary Middle School Principal Labs Prioritizing Urban Children, Teachers, and Schools through Professional Development Schools New York City's Best Public Elementary Schools Resources for Teaching Middle School Science Take-Home Physics: 65 High-Impact, Low-Cost Labs

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The latest edition of this best-selling textbook by Miles and Huberman not only is considerably expanded in content, but is now available in paperback. Bringing the art of qualitative analysis up-to-date, this edition adds hundreds of new techniques, ideas and references developed in the past decade. The increase in the use of computers in qualitative analysis is also reflected in this volume. There is an extensive appendix on criteria to choose from among the currently available analysis packages. Through examples from a host of social science and professional disciplines, Qualitative Data Analysis remains the most comprehensive and complete treatment of this

topic currently available to scholars and applied researchers. For nearly a decade, parents have looked to Clara Hemphill to help them find a great public school for their child. For this third edition, Clara and her staff visited nearly 500 of New York City's elementary schools and chose 200 of the best schools to recommend—with more than 70 new school profiles not included in the previous edition! This essential guide uncovers the "inside scoop" on schools (the condition of the building, homework, teacher quality, etc.), includes a checklist of questions to ask on a school tour, and incorporates new listings of charter schools and "magnet" programs. It also provides the hard facts on: Class size and total school enrollment Test scores for reading and math Ethnic make up: Black, White, Hispanic, Asian Admissions requirements: none? tests? interview? Teaching methods and styles: progressive, traditional When to apply How to decide which schools to try for Praise for Clara Hemphill's Parents' Guides! New York Daily News... "Brisk, thoughtful profiles of topnotch, intriguing schools." Big Apple Parent... "Hemphill has done for schools what Zagat's did for restaurants." New York Magazine... "Thoughtful, well-researched required reading." The New York Times... "A bible for urban parents." Reflecting changes brought about by Mayor Michael Bloomberg's reorganization of New York City's public school system, this Third Edition features reviews of 74 of the city's best public middle schools. Providing everything parents need to know in choosing a middle school that is just right for their child, New York City's Best Public Middle Schools: A Parents' Guide features interviews with teachers, parents, and students to uncover the "inside scoop" on schools—including atmosphere, homework, student stress, competition among students, the quality of teachers, gender issues, the condition of the building, and more. "This book can save your life if you are trying to navigate the confusing world of middle school choice." —Susan Brenna, parent "An incredible resource." —Nancy Arno, parent "The most definitive guidebooks to the city schools." —The New York Times "Required reading." —New York magazine This book focuses on the importance of human factors in optimizing the learning and training process. It reports on the latest research and best practices and discusses key principles of behavioral and cognitive science, which are extremely relevant to the design of instructional content and new technologies to support mobile and multimedia learning, virtual training and web-based learning, among others, as well as performance measurements, social and adaptive learning and many other types of educational technologies, with a special emphasis on those important in the corporate, higher education, and military training contexts. Based on the AHFE 2017 Conference on Human Factors in Training, Education, and Learning Sciences, held July 17-21, 2017 in Los Angeles, California, the book offers a timely perspective on the role of human factors in education. It highlights important new ideas

and will foster new discussions on how to optimally design learning experiences. This text covers topics from MIDI and electronic keyboards to the Internet and the copyright law to most recent developments in hardware, software, and pedagogy. The accompanying CD-ROM provides end-of-chapter questions, activities and projects, lesson plans, web activities, demo programs and much more. As a science educator, you know the importance of using the best safety practices to protect your students physically during hands-on science instruction. But do you also know how to protect yourself legally even in aging facilities and crowded labs? Learn the regulations and how to apply them with this clear, easy-to-use guide to both safety practices and legal standards. The NSTA Ready-Reference Guide to Safer Science is a compendium of 39 "Scope on Safety" columns from Science Scope, NSTA's member journal for middle schools. Major sections cover safety practices and legal standards, on subjects as diverse as asbestos, ergonomics, and bloodborne pathogens, and instructional safety, including the challenges of occupancy loads, field trips, and safer science for special-needs students. Each section is divided into four parts: general science, chemistry, physical science, and biology. An appendix includes the NSTA position statements related to safer practices and resources and referenes from all the columns. But especially intriguing is the section devoted to questions teachers ask. Is it safe to allow backpacks, open-toe shoes, and long synthetic nails in the lab? Are microwave ovens safe to use for heating liquids for experiments? Can ether be safely used to anesthetize fruit flies in a lab? With this book on your shelf, you can quickly find out. Geometry Labs is a book of hands-on activities that use manipulatives to teach important ideas in geometry. These 78 activities have enough depth to provide excellent opportunities for discussion and reflection in both middle school and high school classrooms. This resource book is intended for experienced middle school science teachers who are seeking ways to incorporate a more student centered approach to investigative lab activities. New teachers can also benefit from this manual. This resource book is based upon a teaching philosophy known as the Learning Cycle. In the Learning Cycle (LC) model of teaching science, students work together in groups of three or four with limited teacher guidance to develop lab procedures for the investigation of questions which can be studied in the laboratory or field. The Impact of the Laboratory and Technology on K-12 Science Learning and Teaching examines the development, use, and influence of active laboratory experiences and the integration of technology in science teaching. This examination involves the viewpoints of policymakers, researchers, and teachers that are expressed through research involving original documents, interviews, analysis and synthesis of the literature, case studies, narrative studies, observations of teachers and students, and assessment of student learning outcomes. Volume 3 of the series, Research in Science Education, addresses the needs of various constituencies including teachers, administrators, higher education science and science education faculty, policymakers,

governmental and professional agencies, and the business community. The guiding theme of this volume is the role of practical laboratory work and the use of technology in science learning and teaching, K-16. The volume investigates issues and concerns related to this theme through various perspectives addressing design, research, professional practice, and evaluation. Beginning with definitions, the historical evolution and policy guiding these learning experiences are explored from several viewpoints. Effective design and implementation of laboratory work and technology experiences is examined for elementary and high school classrooms as well as for undergraduate science laboratories, informal settings, and science education courses and programs. In general, recent research provides evidence that students do benefit from inquirybased laboratory and technology experiences that are integrated with classroom science curricula. The impact and status of laboratory and technology experiences is addressed by exploring specific strategies in a variety of scientific fields and courses. The chapters outline and describe in detail researchbased best practices for a variety of settings. Provides activities for middle school students to become familiar with spreadsheets, databases, computer-assisted drawing, and LOGO programming. Provides insights into university partnerships with urban schools. "We are among those who have come to enjoy the blossoming intellects, often comical behaviors, and insatiable curiosity of middle schoolers—and choose to work with them! With more than 130 years of combined experience in the profession, we've gathered a lot of ideas to share. We know from our interactions with educators around the country that precious few quality resources exist to assist science teachers 'in the middle,' and this was a central impetus for updating Doing Good Science in Middle School." —From the preface This lively book contains the kind of guidance that could only come from veterans of the middle school science trenches. The authors know you're crazy-busy, so they made the book easy to use, whether you want to read it cover to cover or pick out sections to help you with lesson planning and classroom management. They also know you face new challenges, so they thoroughly revised this second edition to meet the needs of today's students. The book contains:

- big-picture concepts, such as how to understand middle school learners and explore the nature of science with them;
- a comprehensive overview of science and engineering practices, STEM, and inquiry-based middle school science instruction, aligned with A Framework for K-12 Science Education and the Next Generation Science Standards;
- 10 new and updated teacher-tested activities that integrate STEM with literacy skill-building;
- information on best instructional practices and professional-development resources; and
- connections to the Common Core State Standards in English language arts and mathematics.

If you're a new teacher, you'll gain a solid foundation in how to teach science and engineering practices while better understanding your often-enigmatic middle-grade students. If you're a veteran teacher, you'll benefit from a fresh view of what your colleagues are doing in new times. Either

way, Doing Good Science in Middle School is a rich opportunity to reaffirm that what you do is "good science." With over 150 sample schedules, this book shows how scheduling strategies can enhance your school's capacity to offer exploratory courses, interdisciplinary teaching teams, teacher-based guidance programs, and other programs and practices which are responsive to the needs of early adolescents. Innovative Techniques in Instruction Technology, E-Learning, E-Assessment and Education is a collection of world-class paper articles addressing the following topics: (1) E-Learning including development of courses and systems for technical and liberal studies programs; online laboratories; intelligent testing using fuzzy logic; evaluation of on line courses in comparison to traditional courses; mediation in virtual environments; and methods for speaker verification. (2) Instruction Technology including internet textbooks; pedagogy-oriented markup languages; graphic design possibilities; open source classroom management software; automatic email response systems; tablet-pcs; personalization using web mining technology; intelligent digital chalkboards; virtual room concepts for cooperative scientific work; and network technologies, management, and architecture. (3) Science and Engineering Research Assessment Methods including assessment of K-12 and university level programs; adaptive assessments; auto assessments; assessment of virtual environments and e-learning. (4) Engineering and Technical Education including cap stone and case study course design; virtual laboratories; bioinformatics; robotics; metallurgy; building information modeling; statistical mechanics; thermodynamics; information technology; occupational stress and stress prevention; web enhanced courses; and promoting engineering careers. (5) Pedagogy including benchmarking; group-learning; active learning; teaching of multiple subjects together; ontology; and knowledge representation. (6) Issues in K-12 Education including 3D virtual learning environment for children; e-learning tools for children; game playing and systems thinking; and tools to learn how to write foreign languages. Safer science is a daily requirement for every teacher in every science classroom and laboratory. Get up-to-date information from The NSTA Ready-Reference Guide to Safer Science, Volume 2. This second volume is a collection of more than 40 of the latest quick-read Scope on Safety columns from Science Scope, NSTAOCOs middle school journal (plus some adaptable Safer Science columns from The Science Teacher, NSTAOCOs high school journal). As easy to read as it is practical, the book is chock-full of safety information, anecdotes, and advisories you can use every day." Math is the foundation of all sciences and key to understanding the world around us. Math Games Lab for Kids uses over fifty hands-on activities to make learning a variety of math concepts fun and easy for kids. Make learning math fun by sharing these hands-on labs with your child. Math Games Lab for Kids presents more than 50 activities that incorporate coloring, drawing, games, and making shapes to make math more than just numbers. With Math Games Lab for Kids, kids can: Explore

geometry and topology by making prisms, antiprisms, Platonic solids, and Möbius strips. Build logic skills by playing and strategizing through tangrams, toothpick puzzles, and the game of Nim. Draw and chart graphs to learn the language of connections. Discover how to color maps like a mathematician by using the fewest colors possible. Create mind bending fractals with straight lines and repeat shapes. And don't worry about running to the store for expensive supplies Everything needed to complete the activities can be found in the book or around the house. Math is more important than ever. Give your child a great experience and solid foundation with Math Games Lab for Kids. Children spend more time in school than in any social institution outside the home. And schools probably exert more influence on children's development and life chances than any environment beyond the home and neighbourhood. The purpose of this book is to document some important ways schools influence children's development and to describe various models and methods for studying schooling effects. Key features include: Comprehensive Coverage - this is the first book to provide a comprehensive review of what is known about schools as a context for human development. Topical coverage ranges from theoretical foundations to investigative methodologies and from classroom-level influences such as teacher-student relations to broader influences such as school organization and educational policies. Cross-Disciplinary - this volume brings together the divergent perspectives, methods and findings of scholars from a variety of disciplines, among them educational psychology, developmental psychology, school psychology, social psychology, psychiatry, sociology, and educational policy. Chapter Structure - to ensure continuity, chapter authors describe 1) how schooling influences are conceptualized 2) identify their theoretical and methodological approaches 3) discuss the strengths and weaknesses of existing research and 4) highlight implications for future research, practice, and policy. Methodologies - chapters included in the text feature various methodologies including longitudinal studies, hierarchical linear models, experimental and quasi-experimental designs, and mixed methods. Research into the educational effectiveness of chemistry practical work has shown that the laboratory offers a unique mode of instruction, assessment and evaluation. Laboratory work is an integral and important part of the learning process, used to encourage the development of high order thinking and learning alongside high order learning and thinking skills such as argumentation and metacognition. Authored by renowned experts in the field of chemistry education, this book provides a holistic approach to cover all issues related to learning and teaching in the chemistry laboratory. With sections focused on developing the skill sets of teachers, as well as approaches to supporting students in the laboratory, the book offers a comprehensive look at vicarious instruction methods, teacher and students' roles, and the blend with ICT, simulations, and other effective approaches to practical work. The book concludes with a focus on retrospective issues, followed-up with a look to the future of laboratory learning. A product

of nearly fifty years of research, this book will be useful for chemistry teachers, curriculum developers, researchers in chemistry education, and professional development providers. Teaching Secondary and Middle School Mathematics combines the latest developments in research, technology, and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics. The book explores the mathematics teaching profession by examining the processes of planning, teaching, and assessing student progress through practical examples and recommendations. Beginning with an examination of what it means to teach and learn mathematics, the reader is led through the essential components of teaching, concluding with an examination of how teachers continue with professional development throughout their careers. Hundreds of citations are used to support the ideas presented in the text, and specific websites and other resources are presented for future study by the reader. Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms. The sixth edition has been updated and expanded with particular emphasis on the latest technology, resources, and standards. The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation, as well as how to manage a classroom for success. Features include: The entire text has been reorganized so that assessment takes a more central role in planning and teaching. Unit 3 (of 5) now addresses the use of summative and formative assessments to inform classroom teaching practices. ● A new feature, "Links and Resources," has been added to each of the 13 chapters. While the book includes a substantial listing of citations and resources after the chapters, five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic. ● Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research, materials, and resources that support the teaching of mathematics. ● A Quick Reference Guide has been added to the front of the book to assist the reader in identifying the most useful chapter features by topic. ● A significant revision to Chapter 13 now includes discussions of common teaching assessments used for field experiences and licensure, as well as a discussion of practical suggestions for success in methods and student teaching experiences. ● Chapter 9 on the practical use of classroom technology has been revised to reflect the latest tools available to classroom teachers, including apps that can be run on handheld, personal devices. An updated Instructor's Manual features a test bank, sample classroom activities, Powerpoint slides, chapter summaries, and learning outcomes for each chapter, and can be accessed by instructors online at www.routledge.com/9780367146511 With age-appropriate, inquiry-centered curriculum materials and sound teaching practices, middle school science can capture the interest and energy of adolescent students and expand their

understanding of the world around them. Resources for Teaching Middle School Science, developed by the National Science Resources Center (NSRC), is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8. The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards. This completely new guide follows on the success of Resources for Teaching Elementary School Science, the first in the NSRC series of annotated guides to hands-on, inquiry-centered curriculum materials and other resources for science teachers. The curriculum materials in the new guide are grouped in five chapters by scientific area--Physical Science, Life Science, Environmental Science, Earth and Space Science, and Multidisciplinary and Applied Science. They are also grouped by type--core materials, supplementary units, and science activity books. Each annotation of curriculum material includes a recommended grade level, a description of the activities involved and of what students can be expected to learn, a list of accompanying materials, a reading level, and ordering information. The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide. The criteria reflect and incorporate goals and principles of the National Science Education Standards. The annotations designate the specific content standards on which these curriculum pieces focus. In addition to the curriculum chapters, the guide contains six chapters of diverse resources that are directly relevant to middle school science. Among these is a chapter on educational software and multimedia programs, chapters on books about science and teaching, directories and guides to science trade books, and periodicals for teachers and students. Another section features institutional resources. One chapter lists about 600 science centers, museums, and zoos where teachers can take middle school students for interactive science experiences. Another chapter describes nearly 140 professional associations and U.S. government agencies that offer resources and assistance. Authoritative, extensive, and thoroughly indexed--and the only guide of its kind--Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers, school administrators, teacher trainers, science curriculum specialists, advocates of hands-on science teaching, and concerned parents. Science-learning spaces are different from general-purpose classrooms. So if your school is planning to build or renovate, you need the fully updated NSTA Guide to Planning School Science Facilities. It's the definitive resource for every K - 12 school that seeks safe, effective science space without costly, time-consuming mistakes. New to this edition is a chapter on "green" schools, including how to think outside the traditional wall and use the entire grounds to encourage environmental responsibility in students. The revised guide also provides essential up-to-date coverage such as: practical information on laboratory and general room design, budget priorities, space considerations, and furnishings; stages of the planning process for new and renovated science facilities; current trends and future directions in science

education and safety, accessibility, and legal guidelines; and detailed appendices about equipment-needs planning, classroom dimensions, and new safety research, plus an updated science facilities audit. NSTA Guide to Planning School Science Facilities will help science teachers, district coordinators, school administrators, boards of education, and schoolhouse architects understand those differences and develop science facilities that will serve students for years to come. The Focus On Middle School Chemistry Laboratory Workbook contains ten hands-on experiments that correspond with the ten chapters of the Focus On Middle School Chemistry Student Textbook. The experiments include: making models of molecules, testing for acids and bases using a cabbage juice indicator, testing for carbohydrates, mixtures, observing chemical reactions and changes in polymers, and more. This Laboratory Workbook can be used for science fair projects. The Focus On Middle School Chemistry Laboratory Workbook has 10 black and white chapters. Grades 5-8. Educators increasingly leverage the Internet to enhance traditional programs and approaches. "Virtual Destinations and Student Learning in Middle School" provides the most detailed case study of such an approach ever undertaken. Donaldson examines the impact of an online museum called Museum Explorer! on middle school students knowledge and learning engagement when combined with traditional pedagogy. (Education/Teaching) An indispensable guide for middle school science teachers who have inclusive classrooms The third volume in the Differentiated Instruction series, Differentiated Instruction for the Middle School Science Teacher offers teachers proven techniques for designing and delivering effective science instruction, measuring success, getting students to work together, and collaborating with other professionals. The ready-to-use activities are tied to core curriculum standards for middle school students and each lesson incorporates adaptations for students with different learning needs. Includes strategies for teaching a standards-based science curriculum Contains a wealth of activities that can be adapted for learners of all abilities Offers information for delivering effective instruction, measuring success, and student collaboration The authors, both experienced teachers, offer a range of techniques, such as station/group activities, enrichment activities, and modifications for students with specific disabilities. This book highlights the latest in educational technology. Here are ideas that are not only intellectually intriguing but also practical and practice-building, inspiring educators to move beyond traditional teaching roles toward learning design. Laboratory experiences as a part of most U.S. high school science curricula have been taken for granted for decades, but they have rarely been carefully examined. What do they contribute to science learning? What can they contribute to science learning? What is the

current status of labs in our nation's high schools as a context for learning science? This book looks at a range of questions about how laboratory experiences fit into U.S. high schools: What is effective laboratory teaching? What does research tell us about learning in high school science labs? How should student learning in laboratory experiences be assessed? Do all students have access to laboratory experiences? What changes need to be made to improve laboratory experiences for high school students? How can school organization contribute to effective laboratory teaching? With increased attention to the U.S. education system and student outcomes, no part of the high school curriculum should escape scrutiny. This timely book investigates factors that influence a high school laboratory experience, looking closely at what currently takes place and what the goals of those experiences are and should be. Science educators, school administrators, policy makers, and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum-and how that can be accomplished. A practical handbook for teachers of middle school age students. Focus on frequent, accurate feedback with this newly expanded guide to understanding assessment. Field-tested and classroom ready, it's designed to help you reinforce productive learning habits while gauging your lessons' effectiveness. The book opens with an up-to-date discussion of assessment theory, research, and uses. Then comes a wealth of sample assessment activities (nearly 50 in all, including 15 new ones) in biology, chemistry, physics, and Earth science. You'll like the activities' flexibility. Some are short tasks that zero in on a few specific process skills; others are investigations involving a variety of skills you can cover in one or two class periods; and still others are extended, in-depth investigations that take several weeks to complete. Keyed to the U.S. National Science Education Standards, the activities include reproducible task sheets and scoring rubrics. All are ideal for helping your students reflect on their own learning during science labs. This is the best and most comprehensive guide to Manhattan's private schools, including Brooklyn and Riverdale. Written by a parent who is also an expert on school admissions, this guide has been helping New York City parents choose the best private and selective public schools for their children for over 20 years. The new edition has been completely revised and expanded to include the latest tuition, and scholarships. It now lists over 75 elementary and high schools including schools for special needs children. This text describes how to create a programme that addresses the specific needs and capabilities of middle school students, while helping them through the transition from childhood to young adulthood. This edition is fully updated and revised. Like your own personal survival guide, Help IOCOM Teaching Middle School Science is a nontechnical how-to manual especially for

first-year teachers. But even veteran teachers can benefit from the plentiful ideas, examples, and tips on teaching science the way middle-schoolers learn best. The book covers all the basics: what to do on the first day of school (including icebreaker activities); preparing safe and effective lab lessons; managing the classroom; working with in-school teams as well as parents. But its practical and encouraging approach doesn't mean it shortchanges the basics of effective pedagogy. You'll learn: how to handle cooperative learning and assessment; how to help students write effectively and; the importance of modeling for early adolescents." STEM Labs for Middle Grades offers activities that challenge students to apply scientific inquiry, content knowledge, and technological design to solve real-world problems. An excellent addition to your curriculum, this supplement will help cultivate students' interest in science, technology, engineering, and math. --Mark Twain Media Publishing Company specializes in providing engaging supplemental books and decorative resources to complement middle- and upper-grade classrooms. Designed by leading educators, this product line covers a range of subjects including math, science, language arts, social studies, history, government, fine arts, and character. Megan Kortlandt, Carly Stone, and Samantha Keesling have developed a flexible structure for collaborative professional learning that they call the principal lab, in which K-12 principals learn with and from each other to become better instructional leaders. Each chapter walks through the foundational components of a successful principal lab—relationship building, anchoring experiences, observations, and feedback—and then discusses how to lay the groundwork, figure out logistics, and plan and structure labs. Principal Labs: Strengthening Instructional Leadership Through Shared Learning combines the latest research in adult learning with the authors' practical experience to discuss the qualities of a successful principal lab and provide the tools to build your own. It's easy to get started with downloadable reflection and observation templates based on the examples in each chapter. As a school principal you have many responsibilities, and finding time for your own professional development can be a challenge. The approach in this book will help you effectively use your time to connect with other principals, practice and develop feedback skills, and ultimately make informed decisions for instructional improvement in your school. The volume examines how leadership and layers of leaders are developed and cultivated from the classroom to the boardroom. Some of the topics include leadership recruitment and selection processes, retention, coaching and mentoring, placement and continued professional development support for aspiring and practicing leaders.

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