

K to 12 BASIC EDUCATION CURRICULUM
SENIOR HIGH SCHOOL – SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) SPECIALIZED SUBJECT

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE	SCIENCE EQUIPMENT
		REPHRASED as: Describe various simple separation techniques such as distillation, chromatography	7. differentiate between elements and compounds	STEM_GC11HP-Ia-b-7	
			8. differentiate between homogenous and heterogenous mixtures	STEM_GC11HP-Ia-b-8	Laser Pointer, dual-function, with dry cells
			9. recognize the formulas of common chemical substances	STEM_GC11HP-Ia-b-9	
			10. describe separation techniques for mixtures and compounds	STEM_GC11HP-Ia-b-10	1. Evaporating Dish, 75 ml, capacity 2. Filter Paper, ordinary, 24" x 24" sheet 3. Glass Funnel, Ø 50mm (Top Inside Diameter), length of stem: 75mm
			11. compare consumer products on the basis of their components for use, safety, quality and cost	STEM_GC11HP-Ia-b-11	
			12. (LAB) apply simple separation techniques such as distillation, chromatography	STEM_GC11HP-Ia-b-12	1. Condenser, Liebig-type with accessories 2. Distilling Flask, 250ml
			1. differentiate between precision and accuracy	STEM_GC11MT-Ib-13	
Measurements 1. Accuracy and precision 2. Significant figures in calculations 3. Density measurement	1. the difference between accuracy and precision 2. different sources of errors in measurements		2. (LAB) Determine the density of liquids & solids	STEM_GC11MT-Ib-14	1. Balance, Triple-Beam, 2610-gram capacity 2. Graduated cylinder, 10 ml capacity 3. Graduated cylinder, 100 ml capacity

Stem Curriculum Guide

AN Whitehead



Stem Curriculum Guide:

One White Sun Curriculum for Prek STEM Chiquita Hughes, 2023-05-05 Welcome to the One White Sun STEM Curriculum This exciting set of lessons combines the creativity and beauty of poetry with the logic and rigor of science technology engineering and math STEM education Lessons are designed for students in grades PreK through 3rd grade and each activity provides a list of materials step by step instructions and links to relevant academic standards From creating sun catchers to building habitats the One White Sun Curriculum STEM series offers a unique and engaging way for young learners to explore the wonders of the natural world while developing their STEM skills

Handbook of Research on STEM Education Carla C. Johnson, Margaret J. Mohr-Schroeder, Tamara J. Moore, Lyn D. English, 2020-04-27 The Handbook of Research on STEM Education represents a groundbreaking and comprehensive synthesis of research and presentation of policy within the realm of science technology engineering and mathematics STEM education What distinguishes this Handbook from others is the nature of integration of the disciplines that is the founding premise for the work all chapters in this book speak directly to the integration of STEM rather than discussion of research within the individual content areas The Handbook of Research on STEM Education explores the most pressing areas of STEM within an international context Divided into six sections the authors cover topics including the nature of STEM STEM learning STEM pedagogy curriculum and assessment critical issues in STEM STEM teacher education and STEM policy and reform The Handbook utilizes the lens of equity and access by focusing on STEM literacy early childhood STEM learners with disabilities informal STEM socio scientific issues race related factors gender equity cultural relevancy and parental involvement Additionally discussion of STEM education policy in a variety of countries is included as well as a focus on engaging business industry and teachers in advocacy for STEM education The Handbook s 37 chapters provide a deep and meaningful landscape of the implementation of STEM over the past two decades As such the findings that are presented within provide the reader with clear directions for future research into effective practice and supports for integrated STEM which are grounded in the literature to date

Engineering in Elementary STEM Education Christine M. Cunningham, 2018-02-16 Bolstered by new standards and new initiatives to promote STEM education engineering is making its way into the school curriculum This comprehensive introduction will help elementary educators integrate engineering into their classroom school or district in age appropriate inclusive and engaging ways Building on the work of a Museum of Science team that has spent 15 years developing elementary engineering curricula this book outlines how engineering can be integrated into a broader STEM curriculum details its pedagogical benefits to students and includes classroom examples to help educators tailor instruction to engage diverse students Featuring vignettes case studies videos research results and assessments this resource will help readers visualize high quality elementary engineering and understand the theoretical principles in context Book Features Frameworks to help teachers create curricula and structure activities A focus on engaging the diversity of learners in today s

classrooms Experiences from the nation's leading elementary education curriculum that has reached 13.3 million children and 165,000 educators Go to eie.org book for videos assessment tools reproducibles and other instructional supports that enliven the text

Teaching and Learning STEM Richard M. Felder, Rebecca Brent, 2024-03-13 The widely used STEM education book updated Teaching and Learning STEM A Practical Guide covers teaching and learning issues unique to teaching in the science technology engineering and math STEM disciplines Secondary and postsecondary instructors in STEM areas need to master specific skills such as teaching problem solving which are not regularly addressed in other teaching and learning books This book fills the gap addressing topics like learning objectives course design choosing a text effective instruction active learning teaching with technology and assessment all from a STEM perspective You'll also gain the knowledge to implement learner centered instruction which has been shown to improve learning outcomes across disciplines For this edition chapters have been updated to reflect recent cognitive science and empirical educational research findings that inform STEM pedagogy You'll also find a new section on actively engaging students in synchronous and asynchronous online courses and content has been substantially revised to reflect recent developments in instructional technology and online course development and delivery Plan and deliver lessons that actively engage students in person or online Assess students progress and help ensure retention of all concepts learned Help students develop skills in problem solving self directed learning critical thinking teamwork and communication Meet the learning needs of STEM students with diverse backgrounds and identities The strategies presented in Teaching and Learning STEM don't require revolutionary time intensive changes in your teaching but rather a gradual integration of traditional and new methods The result will be a marked improvement in your teaching and your students learning Visit Author's site at <https://educationdesignsinc.com> book

STEM Education from Asia Tang Wee Teo, Aik-Ling Tan, Paul Teng, 2021-12-24 Asia is the largest continent in the world Five out of the top ten high performing economies in the Programme for International Student Assessment PISA 2018 are located in Asia Why do Asian students perform so well in STEM related subjects This book answers this by examining the STEM education policies and initiatives in Asian economies as well as the training programmes undertaken by STEM teachers in Asia The book is broken into four sections each accompanied by a passage of commentary that summarizes the key takeaways of the chapters Section one focuses on STEM policy environments and how various countries have developed policies that promote STEM as an integral part of national economic development Section two focuses on STEM teacher education in the Philippines and Thailand while section three focuses on STEM curriculum design context and challenges in four Asian economies The fourth and final section focuses on presenting snapshots of STEM education research efforts in Malaysia South Korea and Singapore Written by Asian academics this book will provide valuable insights to policy makers educators and researchers interested in the topic of STEM education especially in the Asian context Chapters 7 and 11 of this book are freely available as a downloadable Open Access PDF under a Creative Commons Attribution Non Commercial No

Derivatives 4 0 license available at <http://www.taylorfrancis.com> **STEAM Education**, 2025-01-07 Integrating science technology engineering arts and mathematics into a holistic and robust STEAM education is a promising educational movement worldwide STEAM Education Intersections and Thresholds features four themes pedagogical frameworks community based learning STEM STEAM transformation and teacher education practices examined by researchers educators policymakers and community organizers from around the world Readers will find unique and innovative curricular ideas instructional strategies STEAM gadgets examples of real classroom activities and projects for students from elementary to graduate school to enrich STEAM education This collection of best practices is a must have to build diverse integrative and engaging STEAM experiences in the 21st century Contributors are Lori Czop Assaf Paul Boey Hsin Yi Chao Yichien Cooper Yeliz Erdo an Suzan Duygu Bedir Eri ti Maria Evagorou Jonah B Firestone Snow Yunxue Fu David Glassmeyer Luke Hampton Kevin Hsieh Sean Justice Chia Hung Kao Alice Lai Christine Liao Don McMahon Isao Ohashi Vedat zsoy Eliza Pitri Shyh Shiun Shyu Debrah C Sickler Voigt Agni Stylianou Georgiou Michael White So Lan Wong and Yui Chih Wu International Handbook of Research on STEAM Curriculum and Practice Stephen J. Farenga, Salvatore G. Garofalo, Daniel Ness, 2025-10-24 This comprehensive handbook delves into timely issues in STEAM science technology engineering arts architecture and mathematics curriculum and praxis Cutting edge research will help STEAM educators and researchers recognize and appreciate students understanding of STEAM concepts as well as capture contemporary educational psychological and social issues within the STEAM context Drawing on the work of over 50 international contributors this volume covers both emergent and established areas of research giving voice to newcomers to the field as well as perspectives from established experts These areas are divided into four sections Foundations Content Teaching and Learning Throughout the Lifespan Equity and Enrichment and Settings Each topic is considered in both its historical and current context with a focus on the interconnections between theory and practice This book offers a first of its kind overview of STEAM curriculum development which will be especially useful to educational practitioners and researchers of STEAM subjects as well as teacher educators overseeing STEAM Education This resource will also be useful for K 12 school and institutional libraries as reference material and curriculum specialists and administrators seeking to identify methods of best educational practices within STEAM Reconceptualizing STEM Education Richard A. Duschl, Amber S. Bismack, 2016-01-08 Reconceptualizing STEM Education explores and maps out research and development ideas and issues around five central practice themes Systems Thinking Model Based Reasoning Quantitative Reasoning Equity Epistemic and Ethical Outcomes and STEM Communication and Outreach These themes are aligned with the comprehensive agenda for the reform of science and engineering education set out by the 2015 PISA Framework the US Next Generation Science Standards and the US National Research Council's A Framework for K 12 Science Education The new practice focused agenda has implications for the redesign of preK 12 education for alignment of curriculum instruction assessment STEM teacher education and professional development

postsecondary further and graduate studies and out of school informal education In each section experts set out powerful ideas followed by two eminent discussant responses that both respond to and provoke additional ideas from the lead papers In the associated website highly distinguished nationally recognized STEM education scholars and policymakers engage in deep conversations and considerations addressing core practices that guide STEM education

The STEM Shift Ann Myers, Jill Berkowicz, 2015-04-22 All you need to make the shift to STEM a reality This resource makes the process of shifting to a comprehensive integrated STEM school or district within reach Invaluable case studies featuring STEM pioneers model how successful STEM centered learning takes place You ll find process specific best practices and strategies to help you Understand create and lead the STEM change proces Prepare the school community for STEM Integrate 21st Century Skills the arts and humanities Includes step by step checklists and visual mapping guides Use this groundbreaking resource to systematically implement STEM instruction that prepares students for the global economy

Handbook of Research on Science Education Norman G. Lederman, Dana L. Zeidler, Judith S. Lederman, 2023-03-17 Volume III of this landmark synthesis of research offers a comprehensive state of the art survey highlighting new and emerging research perspectives in science education Building on the foundations set in Volumes I and II Volume III provides a globally minded up to the minute survey of the science education research community and represents the diversity of the field Each chapter has been updated with new research and new content and Volume III has been further developed to include new and expanded coverage on astronomy and space education epistemic practices related to socioscientific issues design based research interdisciplinary and STEM education inclusive science education and the global impact of nature of science and scientific inquiry literacy As with the previous volumes Volume III is organized around six themes theory and methods of science education research science learning diversity and equity science teaching curriculum and assessment and science teacher education Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand historical trends and patterns in that body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature Providing guidance to science education faculty scholars and graduate students and pointing towards future directions of the field Handbook of Research on Science Education Research Volume III offers an essential resource to all members of the science education community

Quality in Teacher Education and Professional Development John Chi-Kin Lee, Timo Ehmke, 2021-09-28 This book addresses the past and changing contexts of Chinese and German teacher education under the impact of globalization and echoes quality issues of teacher education This edited book provides a comprehensive discussion on other issues in the management and implementation of change in teacher education related to teacher education curricula for professional development of teachers A combination of chapters provides an overview a review of literature and research as well as offering examples of teacher education practice and

updated empirical research on these topics co edited by two senior scholars and written by experts from Mainland China including Hong Kong and Germany The volume addresses key issues on teacher standards ICT in education and e learning in teacher education STEM education vocational teacher education university school partnership in teacher education and teaching Chinese or German as a second language This is an up to date academic book to look at profound issues related to quality in teacher education and teachers professional development in mainland China and Germany It will be a useful reference for graduate students and researchers in the field of international and comparative education teacher education and curriculum studies teacher educators and practitioners to learn from trends best practice and challenges that have been encountered in Mainland China and Germany *Step Into STEAM, Grades PreK-5* Sarah B. Bush, Kristin L. Cook, 2024-10-18

Create innovative and equitable experiences that prepare your learners for the future STEAM education is crucial for preparing learners to meet the demands of a rapidly evolving world Not every learner is going to pursue a STEAM related career but each and every learner needs to be challenged with opportunities to transfer what they are learning in mathematics and science instruction to seek solutions to the complex problems of today and to meet our future world head on In this Second Edition of *Step Into STEAM* authors Sarah Bush and Kristin Cook guide and inspire PreK 5 educators through a seamless process of designing and implementing STEAM inquiries that align precisely to key mathematics and science content and practices all while meeting the demands of guiding assessments Going far beyond a collection of STEAM activities this book shows educators as well as school and district leaders how to build a STEAM ecosystem that can measurably improve every learner s mathematics and science achievement as well as engagement belonging and interest What truly sets this book apart is its masterful integration of problem based inquiry as the foundation for STEAM instruction This updated edition Expands on the latest research in STEAM education across PreK 5 in various educational settings Incorporates strategies grounded in Universal Design for Learning to engage all learners Provides updated STEAM resources aligned to the Integrated STEM Practices Embeds actionable tips throughout each chapter that educators can implement immediately in addition to suggestions for ongoing learning and growth for all Offers an updated companion website with additional templates for brainstorming sessions or book studies action plans and checklists to help educators put their ideas into practice This is an essential guide for educators looking to implement STEAM education in their classrooms and beyond *Step Into STEAM* provides a comprehensive roadmap for cultivating the creativity problem solving abilities resilience and empathy that will empower the next generation of innovators entrepreneurs and global citizens Make the most of your limited instructional time and become part of the *Step Into STEAM* journey **Handbook of Research on Classroom Diversity and Inclusive Education Practice** Curran, Christina M., Petersen, Amy J., 2017-05-30 As classrooms are becoming more diverse teachers are now faced with the responsibility of creating an inclusive classroom community As such researching classroom pedagogies and practices is an imperative step in curriculum planning The *Handbook of Research on*

Classroom Diversity and Inclusive Education Practice is an authoritative reference source for the latest scholarly research on ways to effectively teach all students and further refine and strengthen school wide inclusive pedagogy methods and policies. Featuring extensive coverage on a number of topics such as special education, online learning, and English language learners, this publication is ideally designed for professionals, educators, and policy makers seeking current research on methods that ensure all students have equal access to curricular content and the chance for growth and success. **Stem Road Map 2.0**

Carla C. Johnson, Erin E. Peters-Burton, 2021-02. Featuring a team of over thirty STEM education professionals from across the US, the updated and revised edition of this landmark book provides an integrated STEM curricula encompassing the entire K-12 spectrum with complete grade level learning based on a spiraled approach to building conceptual understanding. Taking into account the last five years of evolution in STEM education, the second edition includes an increased focus on computer science, computational thinking, mathematics, and the arts, as well as cultural relevance and addressing the needs of diverse learners and underrepresented students. Divided into three main parts: Conceptualizing STEM, STEM Curriculum Maps, and Building Capacity for STEM, each section is designed to build common understandings of integrated STEM, provide rich curriculum maps for implementing integrated STEM at the classroom level, and offer supports to enable systemic transformation to an integrated STEM approach. Written for teachers, policymakers, and administrators, this second edition is fully updated to account for the needs of K-12 learners in the innovation age. STEM Road Map 2.0 enables educators to implement integrated STEM learning into their classroom without the need for extensive resources, empowering educators and supporting students. Carla C. Johnson is Professor of Science Education and Faculty Research Fellow at North Carolina State University. Erin E. Peters-Burton is Professor of Science Education and Educational Psychology at George Mason University. Tamara J. Moore is Professor of Engineering Education in the School of Engineering Education at Purdue University. *The Bloomsbury Handbook of Technology Education*. David Gill, Dawne Irving-Bell, Matt McLain, David Wooff, 2023-04-20. The Bloomsbury Handbook of Technology Education draws together international perspectives on contemporary praxis in technology education, from philosophy to empirical research. Through carefully commissioned chapters, leading authors explore the fundamentals of technology education, curriculum, and pedagogy. Chapters discuss technology education as it can be experienced by children and young people inside and outside of the classroom, across the world, as well as the importance of technology and the history and philosophical origins of technology education. Carefully curated, this is an innovative and exciting volume for students, teachers, teacher educators, researchers, lecturers, and professors in technology education. **STEM Punks Education Framework**. STEM Punks Education, 2025-06-30. STEM Education Science, Technology, Engineering, and Mathematics is a dynamic and interdisciplinary approach to learning that encompasses teaching for thinking and real world learning. It is a philosophy that fosters innovation, critical thinking, problem solving, and creativity. STEM education equips learners with the skills and knowledge needed to thrive in the modern world.

and contribute to the advancement of society STEM encourages learners to explore and question the natural and synthetic world and develop a deeper understanding of our connectedness as a planet It nurtures curiosity and inquiry essential for innovation and new scientific discoveries STEM education demystifies technology empowering individuals to use it ethically and for enhancing learning Learners gain digital literacy and hands on experience with industry aligned STEM tools Students are challenged to find solutions to real world problems and instill a maker mindset that transfers ideas into reality In a world defined by rapid technological advancements and complex global challenges STEM education is the pathway to a brighter future It empowers individuals fosters innovation and shapes societies STEM Punks recognises that establishing a sustainable STEM program in schools can be challenging Our mission is to simplify the process empowering you to design implement and grow a future focused program with confidence To support this we ve developed a STEM Education model a strategic framework that helps you channel your efforts into key actionable steps for building STEM understanding and engagement in schools

Primary Science Education Anne Forbes,2023-06-15 Primary Science Education A Teacher s Toolkit is an accessible guide to primary science education and its effective practice in classrooms

Locating Technology Education in STEM Teaching and Learning Wendy Fox-Turnbull,P. John Williams,2024-05-23 This book offers clarity and consistency of thinking in relation to Technology Education when situated within a STEM approach to teaching It examines the range of Innovations and Issues which are being considered by schools as they implement STEM with particular focus on the place of Technology or the T in STEM The book is divided into three sections Philosophy Implementation and Issues and Innovations with each containing five to seven chapters The first section lays the foundations for the remainder of the book it focuses the readers on the technology aspect of STEM education and situates it to align with the international understanding of technology education The second section provides insights into how STEM is best implemented to give technology due consideration across a range of disciplines with technology education including engineering food technology and textile technology This section also provides suggestions for the successful implementation of the STEM approach and offers further insight through a range of case studies The third section outlines and discusses a range of issues that pose a threat to the position and understanding of technology within the STEM teaching and learning approach This section also examines how technology and STEM are situated within are supported or are threatened by other current innovations and approaches to teaching an integrated curriculum such as the Maker Space Movement and Play based Learning

The STEM Shift Ann Myers,Jill Berkowicz,2015-04-22 All you need to make the shift to STEM a reality Now more than ever educational leaders are encouraged to implement STEM as the foundation for preparing students with the 21st century skills required for college and career readiness This resource makes the process of shifting to a comprehensive integrated STEM school or district within reach Invaluable case studies featuring current STEM pioneers from across the country model how successful STEM centered learning takes place You ll find process specific best practices and strategies to help you Understand create and

lead the STEM change process Transform existing school programs Prepare the school community for STEM and plan for STEM integration Integrate 21st Century Skills the arts and humanities Create essential partnerships with business and higher education Includes step by step checklists and visual mapping guides for successfully navigating the STEM change process Use this groundbreaking resource to systematically implement coherent and integrated STEM instruction that transforms learning and prepares students for the global economy Video and web content also available at <http://bit.ly/TheSTEMShift> Finally A great book that clearly explains what STEM education is why we need it and how to do it well A must read for all educators parents and policymakers Tony Wagner author of The Global Achievement Gap and Creating Innovators Reading Jill and Ann s column in Education Week has been a critical part of my weekly reading since they ve begun writing it I ve learned a lot from those short snippets and now it s exciting to see their expanded thoughts in The Stem Shift You can t go wrong by reading anything they write Larry Ferlazzo High school teacher and Ed Week columnist

Handbook of Research on Using Educational Robotics to Facilitate Student Learning Papadakis, Stamatios, Kalogiannakis, Michail, 2020-12-05 Over the last few years increasing attention has been focused on the development of children s acquisition of 21st century skills and digital competences Consequently many education scholars have argued that teaching technology to young children is vital in keeping up with 21st century employment patterns Technologies such as those that involve robotics or coding apps come at a time when the demand for computing jobs around the globe is at an all time high while its supply is at an all time low There is no doubt that coding with robotics is a wonderful tool for learners of all ages as it provides a catalyst to introduce them to computational thinking algorithmic thinking and project management Additionally recent studies argue that the use of a developmentally appropriate robotics curriculum can help to change negative stereotypes and ideas children may initially have about technology and engineering The Handbook of Research on Using Educational Robotics to Facilitate Student Learning is an edited book that advocates for a new approach to computational thinking and computing education with the use of educational robotics and coding apps The book argues that while learning about computing young people should also have opportunities to create with computing which have a direct impact on their lives and their communities It develops two key dimensions for understanding and developing educational experiences that support students in engaging in computational action 1 computational identity which shows the importance of young people s development of scientific identity for future STEM growth and 2 digital empowerment to instill the belief that they can put their computational identity into action in authentic and meaningful ways Covering subthemes including student competency and assessment programming education and teacher and mentor development this book is ideal for teachers instructional designers educational technology developers school administrators academicians researchers and students

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Stem Curriculum Guide Introduction

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