

**K to 12 BASIC EDUCATION CURRICULUM**  
**SENIOR HIGH SCHOOL – SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) SPECIALIZED SUBJECT**  
**(Highlighted MELC: MOST ESSENTIAL LEARNING COMPETENCIES)**

**Grade:** 11

**Subject Title:** General Chemistry 1 & 2

**Semester:** 1st and 2nd

**No. of Hours/ Semester:** 80 hours per semester

**Subject Description:** Composition, structure, and properties of matter; quantitative principles, kinetics, and energetics of transformations of matter; and fundamental concepts of organic chemistry

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE	SCIENCE EQUIPMENT
<b>Quarter 1 – General Chemistry 1</b>					
<b>Matter and its properties</b> 1. the particulate nature of matter 2. states of matter a. the macroscopic b. microscopic view 3. Physical and chemical properties 4. Extensive and intensive properties 5. Ways of classifying matter a. pure substances and mixtures b. elements and compounds c. homogeneous and heterogeneous mixtures 6. Methods of separating mixtures into their component substances	<i>The learners demonstrate an understanding of:</i>  <b>the properties of matter and its various forms</b>	<i>The learners:</i>  <b>design using multimedia, demonstrations, or models, a representation or simulation of any of the following:</b> <b>a. atomic structure</b> <b>b. gas behavior</b> <b>c. mass relationships in</b> <b>d. reactions</b>	<i>The learners:</i> 1. recognize that substances are made up of smaller particles	<b>STEM_GC11HP-Ia-b-1</b>	
			2. describe and/or make a representation of the arrangement, relative spacing, and relative motion of the particles in each of the three phases of matter	<b>STEM_GC11HP-Ia-b-2</b>	
			3. distinguish between physical and chemical properties and give examples	<b>STEM_GC11HP-Ia-b-3</b>	1. Mortar and Pestle, 150 ml. capacity 2. Spatula, porcelain 3. Watch Glass, Ø 90mm
			4. distinguish between extensive and intensive properties and give examples	<b>STEM_GC11HP-Ia-b-4</b>	1. Mortar and Pestle, 150 ml. Capacity 2. Spatula, porcelain 3. Sulfur Powder, 100 grams / bottle 4. Watch Glass, Ø 90mm
			<b>5. use properties of matter to identify substances and to separate them</b>	<b>STEM_GC11HP-Ia-b-5</b>	
			6. differentiate between pure substances and mixtures	<b>STEM_GC11HP-Ia-b-6</b>	

# Stem Curriculum Guide

**National Research Council, Division of  
Behavioral and Social Sciences and  
Education, Board on Testing and  
Assessment, Board on Science  
Education, Committee on Highly  
Successful Schools or Programs for  
K-12 STEM Education**

## **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

*Teaching and Learning STEM* Richard M. Felder, Rebecca Brent, 2016-03-07 Rethink traditional teaching methods to improve student learning and retention in STEM Educational research has repeatedly shown that compared to traditional teacher centered instruction certain learner centered methods lead to improved learning outcomes greater development of critical high level skills and increased retention in science technology engineering and mathematics STEM disciplines Teaching and Learning STEM presents a trove of practical research based strategies for designing and teaching STEM courses at the university community college and high school levels The book draws on the authors extensive backgrounds and decades of experience in STEM education and faculty development Its engaging and well illustrated descriptions will equip you to implement the strategies in your courses and to deal effectively with problems including student resistance that might occur in the implementation The book will help you Plan and conduct class sessions in which students are actively

engaged no matter how large the class is Make good use of technology in face to face online and hybrid courses and flipped classrooms Assess how well students are acquiring the knowledge skills and conceptual understanding the course is designed to teach Help students develop expert problem solving skills and skills in communication creative thinking critical thinking high performance teamwork and self directed learning Meet the learning needs of STEM students with a broad diversity of attributes and backgrounds 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 continual improvement in your teaching and your students learning More information about Teaching and Learning STEM can be found at <http://educationdesignsinc.com> book including its preface foreword table of contents first chapter a reading guide and reviews in 10 prominent STEM education journals

**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

**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     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     **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

**Successful K-12 STEM Education** National Research Council,Division of Behavioral and Social Sciences and Education,Board on Testing and Assessment,Board on Science Education,Committee on Highly Successful Schools or Programs for K-12 STEM Education,2011-07-22 Science technology engineering and mathematics STEM are cultural achievements that reflect our humanity power our economy and constitute fundamental aspects of our lives as citizens consumers parents and members of the workforce Providing all students with access to quality education in the STEM disciplines is important to our nation s competitiveness However it is challenging to identify the most successful schools and approaches in the STEM disciplines because success is defined in many ways and can occur in many different types of schools and settings In addition it is difficult to determine whether the success of a school s students is caused by actions the school takes or simply related to the population of students in the school Successful K 12 STEM Education defines a framework for understanding success in K 12 STEM education The book focuses its analysis on the science and mathematics parts of STEM and outlines criteria for identifying effective STEM schools and programs Because a school s success should be defined by and measured relative to its goals the book identifies three important goals that share certain elements including learning STEM content and practices developing positive dispositions toward STEM and preparing students to be lifelong learners A successful STEM program would increase the number of students who ultimately pursue advanced degrees and careers in STEM fields enhance the STEM capable workforce and boost STEM literacy for all students It is also critical to broaden the participation of women and minorities in STEM fields Successful K 12 STEM Education examines the vast landscape of K 12 STEM education by considering different school models highlighting research on effective STEM education practices and identifying some conditions that promote and limit school and student level success in STEM The book also looks at where further work is needed to develop appropriate data sources The book will serve as a guide to policy makers decision makers at the school and district levels local state and federal government agencies curriculum developers educators and parent and education advocacy groups

**STEM Road Map 2.0** Carla C. Johnson,Erin E. Peters-Burton,Tamara J. Moore,2021-03-10 Featuring a team of over thirty STEM education professionals from across the United States the updated and revised edition of this landmark book provides an integrated STEM curriculum 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

*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

*What is STEM in Education?* Linda Shave, 2021 The aim of this guide is to provide parents with an overview of STEM Science Technology Engineering and Mathematics and the importance of STEM for their child's education and career paths for today tomorrow and into the future It also introduces parents to the concept of STEAM with the addition of arts into the STEM curriculum This guide briefly discusses why STEM is important the impact on future careers and how parents and pupils can play a crucial role in embracing STEM subjects Page 2

**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](http://eie.org) book for videos assessment tools reproducibles and other instructional supports that enliven the text *Science Education in East Asia* Myint Swe Khine,2015-09-03 This book presents innovations in teaching and learning science novel approaches to science curriculum cultural and contextual factors in promoting science education and improving the standard and achievement of students in East Asian countries The authors in this book discuss education reform and science curriculum changes and promotion of science and STEM education parental roles and involvement in children s education teacher preparation and professional development and research in science education in the context of international benchmarking tests to measure the knowledge of mathematics and science such as the Trends in Mathematics and Science Study TIMSS and achievement in science mathematics and reading like Programme for International Student Assessment PISA Among the high achieving countries the performance of the students in East Asian countries such as Singapore Taiwan Korea Japan Hong Kong and China Shanghai are notable This book investigates the reasons why students from East Asian countries consistently claim the top places in each and every cycle of those study It brings together prominent science educators and researchers from East Asia to share their experience and findings reflection and vision on emerging trends pedagogical innovations and research informed practices in science education in the region It provides insights into effective educational strategies and development of science education to international readers *STEM Road Map* Carla C. Johnson,Erin E. Peters-Burton,Tamara J. Moore,2015-07-03 *STEM Road Map* A Framework for Integrated STEM Education is the first resource to offer an integrated STEM curricula encompassing the entire K 12 spectrum with complete grade level learning based on a spiraled approach to building conceptual understanding A team of over thirty STEM education professionals from across the U S collaborated on the important work of mapping out the Common Core standards in mathematics and English language arts the Next Generation Science Standards performance expectations and the Framework for 21st Century Learning into a coordinated integrated STEM education curriculum map The book is structured in three main parts Conceptualizing STEM STEM Curriculum Maps and Building Capacity for STEM designed to build common understandings of integrated STEM provide rich curriculum maps for implementing integrated STEM at the classroom level and supports to enable systemic transformation to an integrated STEM approach The STEM Road Map places the power into educators hands to implement integrated STEM learning within their classrooms without the need for extensive resources making it a reality for all students **Making Science** Christa Flores,2016-11-11 *Making Science Reimagining STEM Education in Middle School and Beyond* is a guide to help educators use new technology and a designer mindset to create personalized learning experiences that engage students in the wonder of science This is an inclusive STEM curriculum that empowers students to become informed citizens and global problem solvers **Critical Questions in STEM Education** Valarie L. Akerson,Gayle



A. Buck,2020-11-05 This edited volume offers a crosscutting view of STEM and is comprised of work by scholars in science technology engineering and mathematics education It offers a view of STEM from the disciplines that comprise it while adhering to the idea that STEM itself is an interdisciplinary treatment of all the associated disciplines in a meaningful way This book raises and answers questions regarding the meaning of STEM education and research This volume is divided into three sections the first one describes the nature of the component disciplines of STEM The next section presents work from leaders representing all STEM disciplines and deals with aspects such as K 12 and post secondary education The last section draws conclusions regarding the natures of the disciplines challenges and advantages of STEM education in terms of theoretical and practical implications The two final chapters compile arguments from the research chapters describing themes in research results and making recommendations for best STEM education practice and examining areas for future research in STEM education

**STEM Learning with Young Children** Shelly Counsell, Lawrence Escalada, Rosemary Geiken, Melissa Sander, Jill Uhlenberg, Beth Van Meeteren, Sonia Yoshizawa, Betty Zan, 2016 This teacher's guide provides the background information STEM concepts and strategies needed to successfully implement an early STEM curriculum Ramps and Pathways with young children ages 3-8 R P actively engages young children in designing and building ramp structures using wooden cove molding releasing marbles on the structures and observing what happens Children use logical mathematical thinking and problem solving skills as they explore science concepts related to motion force and energy This guide helps teachers to Structure and organize an engaging STEM learning environment Understand and promote logical mathematical and scientific thinking during investigations Promote social settings that enhance communication cooperation and collaboration Make the necessary accommodations and modifications for diverse learners Integrate STEM concepts and skills with other content areas Align teaching and learning with Next Generation Science Standards NGSS and Common Core State Standards CCSS Assess STEM learning using formative and summative assessments Establish adult learning communities to support ongoing professional development Help children develop habits and behaviors that contribute to positive attitudes toward STEM This one of a kind resource uses a newly created Inquiry Teaching Model ITM as the conceptual framework and devotes specific attention to the importance of an inclusive and social STEM learning environment in which children are free to collaborate take risks and investigate within the context of exploratory and constructive play

*The Everything STEM Handbook* Rihab Sawah, 2015-07-10 Projects and experiments to inspire and challenge your kids The STEM fields science technology engineering and math are top education priorities in the United States and they are growing fields with a high demand for jobs If you want to make sure your children are prepared for the future in these fields here's how you can help Make it fun Expose them to hands on real world and fun activities so they'll become engaged motivated and successful students later on Look inside for ideas and activities to stimulate your child's interest in these fascinating subjects including Racing juice cans Setting up a circuit Observing potato osmosis Building a mousetrap race car

Creating a Cartesian treasure map Going on a geometry scavenger hunt Building a bridge Exploring food chemistry With easy to understand examples problem solving tips and hands on projects your family can create together this guide gives you the tools you need to help your kids excel and foster a lifetime love of learning      **Competency Based Curriculum Guide in High School Horticulture** Illinois. Department of Adult, Vocational, and Technical Education,1979

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