

NGSS SCIENCE 4

Standards & Objectives

Overarching Question: How does sound energy travel?
Standard Addressed: 4-PS3-2 Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.

Objectives:

1. To make observations and provide evidence that a sound is a wave that spreads out in all directions.
2. To understand that sound waves travel occur through compression and rarefaction.
3. To make observations and find evidence that increasing force/energy increases the amplitude.
4. To make observations and find evidence that when sound waves travel through the waves are longer, and the sound produced has a lower frequency.
5. To make observations and find evidence that dense materials can transmit sound better than less dense materials and that sound bounces off flat surfaces better than bumpy and/or rough surfaces.
6. To make observations and find evidence that sound travels best through solids, then through liquids, and worst through gases.

Pacing Guide

Suggested Order of Instruction - Energy
9-11 weeks

In the first six weeks, students engage and explore four types of energy in activities. These activity-based units can be taught in any order.

Sound 5-6 days

- Students explore sound energy in six hands-on stations:
1. What is sound?
 2. How does sound travel?
 3. What is amplitude?
 4. What is pitch?
 5. Which materials conduct and insulate sound?
 6. Does sound travel better through solids, liquids, or gases?

Light 5-6 days

- Students explore light energy in six hands-on stations:
1. How does light travel?
 2. Which materials are transparent, translucent, and opaque?
 3. Which materials reflect light?
 4. What is refraction?
 5. What is color?
 6. Light Reading

Heat 8-11 days

- Students work in small groups to complete eight hands-on activities:
1. What is heat?
 2. How does heat travel?
 3. What is conduction?
 4. What is convection?
 5. What is radiation?
 6. What materials insulate and conduct heat?
 7. How does heat change matter?
 8. How do we measure heat?

PACING GUIDE

Ngsss Science Pacing Guide

R Barnett



Ngsss Science Pacing Guide:

Planning Science Instruction for Emergent Bilinguals Edward G. Lyon, Kelly M. Mackura, 2023 Drawing on extensive and current research the authors show how secondary educators can use students own language and lived experiences coupled with authentic science practices to provide rich and relevant language support The text offers a set of tools including blank templates and completed examples to guide educators through the planning process

Science Education and Culturally Sustaining Pedagogies: Research, Practices, and Critical Reflections Silva Pimentel, Diane Terrell, Karen L., 2025-07-02 Science education continually changes to meet the needs of students from different backgrounds Culturally sustaining pedagogies CSP offer avenues towards inclusive science teaching by valuing cultures languages and student experiences CSP encourages teachers to connect lessons to students lives and communities integrating diverse learning experiences for various student skills Further research into science education may empower underserved students and educational leaders to enhance learning methods skill development and pedagogical practices Science Education and Culturally Sustaining Pedagogies Research Practices and Critical Reflections explores how culture language and identity influence science education It examines teaching strategies that value and sustain diverse learning practices This book covers topics such as STEM education sustainable development and teacher education and is a useful resource for educators sociologists academicians researchers and scientists

Newly Hired Teachers of Science Julie A. Luft, Shannon L. Dubois, 2015-12-09 Supporting newly hired science teachers has taken on an increased importance in our schools This book shares the most current information about the status of newly hired science teachers different ways in which to support newly hired science teachers and different research approaches that can provide new information about this group of teachers Chapters in the book are written by those who study the status of beginning science teachers mentor new teachers develop induction programs and research the development of new science teachers Newly Hired Teachers of Science is for administrators who have new science teachers in their schools and districts professionals who create science teacher induction programs mentors who work closely with new science teachers educational researchers interested in studying new science teachers and even new science teachers This is a comprehensive discussion about new science teachers that will be a guiding document for years to come

STEAM Education Myint Swe Khine, Shaljan Areepattamannil, 2019-01-30 This book looks at the value of integrating the arts and sciences in the school curriculum It argues that this will help students further their understanding of analytical concepts through the use of creativity The authors illustrate how schools can work towards presenting common practices concepts and content Coverage features case studies and lessons learned from classrooms across the United States The notion of STEAM Science Technology Engineering Arts and Mathematics is an emerging discipline unique in its desire to provide a well rounded approach to education The chapters of this volume examine STEAM in a variety of settings from kindergarten to higher education Readers will learn

about the practical considerations involved when introducing the arts and creativity into traditionally left brain processes This includes best practices for creating and sustaining successful STEAM initiatives in any school college or university For instance one chapter discusses novel approaches to teach writing with the scientific method in order to help students better present their ideas The authors also detail how the arts can engage more diverse learners including students who are not traditionally interested in STEM subjects They provide three concrete examples of classroom tested inquiries designing a prosthetic arm for a child making a paleontology investigation and taking a closer look at the arts within roller coaster engineering This book is an invaluable resource for teachers and teacher trainers university faculty researchers and school administrators It will also be of interest to science mathematics engineering computer science information technology arts and design and technology teachers

Teacher's Guide to Using the Next Generation Science Standards With Gifted and Advanced Learners Cheryll M. Adams, Alicia Cotabish, Debbie Dailey, 2021-09-23 A Teacher's Guide to Using the Next Generation Science Standards With Gifted and Advanced Learners provides teachers and administrators with practical examples of ways to build comprehensive coherent and rigorous science learning experiences for gifted and advanced students from kindergarten to high school It provides an array of examples across the four domains of science physical sciences Earth and space sciences life sciences and engineering technology and applications of science Each learning experience indicates the performance expectation addressed and includes a sequence of activities implementation examples connections to the CCSS Math and CCSS ELA and formative assessments Chapters on specific instructional and management strategies assessment and professional development suggestions for implementing the standards within the classroom will be helpful for both teachers and administrators

Inclusive Teaching in the Early Childhood Science Classroom John T. Almarode, 2021-04-13 Focused on engaging all students Inclusive Teaching in the Early Childhood Science Classroom walks readers through the process of planning developing and implementing science instruction for early learners Drawing on a range of pedagogical processes and approaches this comprehensive text links science to other disciplines and explores how we develop language social emotional and content learning through early childhood science Each chapter is framed around an essential question and features success criteria and reflection tasks to guide readers through the content Aligned with the Next Generation Science Standards and addressing the Interstate New Teacher Assessment and Support Consortium Model Core Teaching Standards this textbook is critical reading for preservice teacher education students enrolled in an inclusive early childhood or early childhood science methods course

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

Step Into STEAM, Grades K-5 Sarah B. Bush, Kristin L. Cook, 2019-03-14

How do you create an innovative and equitable classroom experience that prepares elementary students for jobs that don't yet exist while placing a critical focus on mathematics and science content and practice standards all while meeting the demands of high stakes testing The answer to this question is Step into STEAM which provides a practical and accessible approach for educators to create meaningful and transformative learning experiences for each and every student This book guides and inspires K-5 educators through a seamless process of designing and implementing STEAM inquiries that align carefully to key mathematics and science content and practices Taking an opposite approach to existing resources that provide collections of disjointed STEAM activities this book empowers teachers and schools to build cohesive and sustainable STEAM infrastructures grounded in grade level standards and purposeful assessment to deepen the mathematics and science learning of each and every student STEAM instruction is for each and every student STEAM instruction is about mathematics and STEAM instruction can and should be implemented for student success and to engage students in making their community and our world a better place Loaded with resources to help K-5 teachers and instructional leaders develop implement and assess meaningful STEAM inquiries this research based book Provides practical on the go resources to help busy teachers get started in creating purpose driven STEAM instruction Allows educators to interact deeply with the content and create equitable STEAM experiences that blend community and societal interests Includes online companion printable resources to help educators jumpstart or deepen STEAM learning throughout a school or district supporting STEAM professional development professional learning communities and book studies Checklists pictures graphic organizers reflection questions Try it Out sections and example STEAM inquiries help teachers seamlessly connect multiple subject areas create transformative learning experiences engage elementary students in developing creativity and empathy and enable students to solve meaningful and authentic problems for others all to prepare students for their bright futures Make

the most of your limited instructional time and become part of the Step into STEAM movement Through carefully crafted research based frameworks inspirational authentic and approachable practical strategies rooted in the reform efforts of student centered STEAM learning and opportunities for professional self reflection Step into STEAM rightfully re elevates educators to their proper places as innovation experts and agents of change in their own classrooms schools districts and communities An inspirational step in a needed direction this book from Drs Bush and Cook is what educators have been craving a guide to transforming ourselves our learning spaces and our profession Richard Cox Jr Expert STEAM Teacher Instructional Coach Bullitt County Public Schools Step into STEAM offers a rare opportunity for anyone concerned with education to consider what learning would be like with equity empathy and experience By providing examples from teachers who have dared to put children first this book offers more than just new way to teach it offers hope for youth today By considering what youth will need to be successful in jobs that are not yet created Cook and Bush provide a platform for educators to create authentic real world problem solving in classrooms with attention on the often forgotten about component of STEAM the M As a proponent of STEAM education my recommendation is to grab this book and watch your students love learning again Cassie Quigley Associate Professor of Science Education at University of Pittsburgh Author of *An Educator s Guide to STEAM Engaging Students Using Real World Problems* *Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices* Christina V. Schwarz,Cynthia Passmore,Brian J. Reiser ,2017-01-31 When it s time for a game change you need a guide to the new rules *Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices* provides a play by play understanding of the practices strand of A Framework for K 12 Science Education Framework and the Next Generation Science Standards NGSS Written in clear nontechnical language this book provides a wealth of real world examples to show you what s different about practice centered teaching and learning at all grade levels The book addresses three important questions 1 How will engaging students in science and engineering practices help improve science education 2 What do the eight practices look like in the classroom 3 How can educators engage students in practices to bring the NGSS to life *Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices* was developed for K 12 science teachers curriculum developers teacher educators and administrators Many of its authors contributed to the Framework s initial vision and tested their ideas in actual science classrooms If you want a fresh game plan to help students work together to generate and revise knowledge not just receive and repeat information this book is for you *Curriculum Leadership* Allan A. Glatthorn,Floyd Boschee,Bruce M. Whitehead,Bonni F. Boschee,2018-07-11 This text helps current and aspiring administrators teachers and curriculum directors successfully restructure enhance and implement school K 12 curriculum Now in its Fifth Edition this foundational book highlights 21st century educational ideas and advocacy while also remaining focused on tried and true strategies for meeting state and national standards in today s diverse classrooms With the support of this thought provoking

and extensively researched text readers will develop a working and thorough foundation of curriculum to effectively implement in the classrooms of the future 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 *Teaching Discipline-Specific Literacies in Grades 6-12* Vicky I. Zygouris-Coe, 2014-10-30 Comprehensive timely and relevant this text offers an approach to discipline specific literacy instruction that is aligned with the Common Core State Standards and the needs of teachers students and secondary schools across the nation It is essential that teachers know how to provide instruction that both develops content and literacy knowledge and skills and aims at reducing student achievement gaps Building on the research supported premise that discipline specific reading instruction is key to achieving these goals this text provides practical guidance and strategies for prospective and practicing content area teachers and other educators on how to prepare all students to succeed in college and the workforce Pedagogical features in each chapter engage readers in digging deeper and in applying the ideas and strategies presented in their own contexts Classroom Life real 6 12 classroom scenarios and interviews with content area teachers Common Core State Standards Connections College Career and Workforce Connections Applying

Discipline Specific Literacies Think Like an Expert habits of thinking and learning specific to each discipline Digital Literacies Differentiating Instruction Reflect and Apply Questions Extending Learning Activities The Companion Website includes Lesson plan resources Annotated links to video files Annotated links to additional resources and information Glossary Flashcards For Instructors All images and figures used in the text provided in an easily downloadable format For Instructors PowerPoint lecture slides [An Educator's Guide to STEAM](#) Cassie F. Quigley, Danielle Herro, This updated and expanded edition is essential reading for K 8 teachers who want to keep pace with fast moving technological advancements and honor their students interests and cultures The authors provide updated problem solving scenarios to assist with STEAM curriculum design additional information on AI powered tools with guidance for effective implementation attention to current topics in science such as climate change cybersecurity and the ethical implications of AI and lesson plans and activities to enhance the guide s practical application in today s classrooms Readers will find easy to understand examples of what STEAM education looks like in a variety of classrooms and will hear from teachers instructional coaches principals and administrators about what it takes to ensure that STEAM is a schoolwide success Each chapter of this popular text incorporates elements of connected learning a type of learning that draws on students interests that teachers can capitalize on when using STEAM to address real world problems Book Features A practical teaching guide that uses classroom scenarios relevant to today s students A conceptual model with specific strategies such as problem based learning student choice technology integration and teacher facilitation Updated with an increased focus on emerging technologies culturally relevant strategies and lessons from classrooms Materials to support authentic assessment such as rubrics STEAM units and formative assessment examples **Designing Culturally Competent Programming for PK-20 Classrooms** Sprott, Katherine, O'Connor Jr., Johnny R., Msengi, Clementine, 2020-08-14 In order to promote effective learning individuals must feel fully appreciated within their own unique identities i e ethnicities language differences socioeconomic status gender religions Culturally competent educators employ practices that acknowledge and build on cultural diversity and that identify students themselves as resources and honors assets possessed within the context of the school community Designing Culturally Competent Programming for PK 20 Classrooms is a comprehensive research publication that explores strategies and best practices for designing culturally competent curricula and serves as a courier for stakeholders fostering inclusive and forward thinking opportunities in PK 20 classrooms Highlighting a wide range of topics such as ethics leadership and organizational development this book is ideal for educators administrators academicians curriculum developers instructional designers researchers and students **K-12 STEM Education: Breakthroughs in Research and Practice** Management Association, Information Resources, 2017-10-31 Education is vital to the progression and sustainability of society By developing effective learning programs this creates numerous impacts and benefits for future generations to come K 12 STEM Education Breakthroughs in Research and Practice is a pivotal source of academic material on the latest trends

techniques technological tools and scholarly perspectives on STEM education in K 12 learning environments Including a range of pertinent topics such as instructional design online learning and educational technologies this book is an ideal reference source for teachers teacher educators professionals students researchers and practitioners interested in the latest developments in K 12 STEM education First Aid for Teacher Burnout Jenny Grant Rankin,2022-08-24 Offering clear strategies rooted in research and expert recommendations the new edition of First Aid for Teacher Burnout empowers teachers to prevent and recover from burnout while finding success at work in a sustainable way Each chapter explores a different common cause of teacher burnout and provides takeaway strategies and realistic tips Chapter coverage includes fighting low morale diminishing stress streamlining grading reducing workload leveraging collaboration using technology to your advantage managing classroom behavior advocating for support from your administration securing the help of parents and community and more New in this edition the author expands on discussion about teacher activism using digital resources as well as a wealth of tips throughout for those teaching virtually Full of reflection exercises confessions from real teachers and veteran teacher tips this accessible book provides easy to implement steps for alleviating burnout problems so you can enjoy peace and success in your teaching *Using the Next Generation Science Standards With Gifted and Advanced Learners* Cheryll M. Adams,Alicia Cotabish,Mary Ricci,2021-10-03 Using the Next Generation Science Standards With Gifted and Advanced Learners provides teachers and administrators examples and strategies to implement the Next Generation Science Standards NGSS with gifted and advanced learners at all stages of development in K 12 schools The book describes and demonstrates with specific examples from the NGSS what effective differentiated activities in science look like for high ability learners It shares how educators can provide rigor within the new standards to allow students to demonstrate higher level thinking reasoning problem solving passion and inventiveness in science By doing so students will develop the skills habits of mind and attitudes toward learning needed to reach high levels of competency and creative production in science fields Improving K-12 STEM Education Outcomes through Technological Integration Urban, Michael J.,Falvo, David A.,2015-11-12 The application of technology in classroom settings has equipped educators with innovative tools and techniques for effective teaching practice Integrating digital technologies at the elementary and secondary levels helps to enrich the students learning experience and maximize competency in the areas of science technology engineering and mathematics Improving K 12 STEM Education Outcomes through Technological Integration focuses on current research surrounding the effectiveness performance and benefits of incorporating various technological tools within science technology engineering and mathematics classrooms Focusing on evidence based approaches and current educational innovations this book is an essential reference source for teachers teacher educators and professionals interested in how emerging technologies are benefiting teaching and or learning efficacy The 15-Day Challenge Maria Nielson,2024-02-13 Get to the heart of essential PLC work when you implement the 15 day challenge for unit planning and design This book

offers a step by step process for collaborative teams that builds on the three big ideas and four critical questions of a PLC at Work In each chapter you ll find practical actions for how to support all students in mastering essential learning standards This book will help K 12 collaborative teams Establish essential learning standards and design common assessments with easy to use templates Utilize Tier 2 intervention plans that address learning gaps year round Reflect with colleagues at each step of the process by assessing strengths and weaknesses in crucial PLC skills Glean insights from educators seasoned in the 15 day unit structure with real world elementary and secondary examples Create a collaborative cohesive PLC culture Contents Introduction Chapter 1 Overview of the 15 Day Challenge Chapter 2 Identify Standards to Teach for a 15 Day Unit of Study Step 1 Chapter 3 Unpack Standards Step 2 Chapter 4 Prioritize Standards Into Three Categories Step 3 Chapter 5 Create Common Formative Assessments Step 4 Chapter 6 Pace and Design the Unit Step 5 Chapter 7 Plan Tier 2 Intervention and Extension While Pacing and Designing the Unit Step 6 Chapter 8 Teach the Unit and Act On the Data Step 7 Chapter 9 Sustain the Process With a Yearlong and Beyond Pacing Guide Epilogue Appendix Sample 15 Day Challenge Unit Plans References and Resources Index **Supporting Teachers' Formative Assessment Practice with Learning**

Progressions Erin Furtak, 2017-10-05 This book presents the results of a four year National Science Foundation funded project that engaged nine high school biology teachers at three public high schools in long term on site professional development program centered on a learning progression It explores the influence of teacher participation in this professional development experience on their learning about student thinking formative assessment task design classroom practices and student learning Taking an in depth look at the multiple sources of data gathered as part of the study this volume reflects on the emergence of professional communities focused on formative assessment design and enactments and associations between teacher participation in learning progression centered professional development and student learning

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