

# 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:**

- Station 1  
To make observations and provide evidence that a sound is a vibration.
- Station 2  
To make observations and provide evidence that sound travels in all directions.  
To understand that sound waves travel occur through compression and rarefaction.
- Station 3  
To make observations and find evidence that increasing force/energy increases the amplitude.  
To make observations and find evidence that when sound waves travel through denser materials, the waves are longer, and the sound produced has a lower frequency.  
To make observations and find evidence that dense materials can absorb sound better than less dense materials and that sound bounces off flat surfaces better than bumpy and/or rough surfaces.  
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

# Next Generation Science Pacing Guide

**Cheryll M. Adams, Alicia  
Cotabish, Debbie Dailey**



## **Next Generation Science Pacing Guide:**

*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.

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.

*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

**Planning Science Instruction for Emergent Bilinguals** Edward G. Lyon, Kelly M. Mackura, 2023 This practical resource takes educators through a planning process from selecting standards to designing learning activities that weaves together language literacy and science in ways that are responsive to emergent bilinguals 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 Using a science unit as a shared text readers will learn how to gather rich knowledge about emergent bilinguals unpack the ideas and language demands of Next Generation Science Standards strategically embed language and literacy standards in the curriculum and sequence learning activities around an anchoring phenomenon a text and an assessment In the process readers will come away with a repertoire of planning tools and examples of how to support emergent bilinguals in using language to collaborate with others and to interpret and produce texts that are central to learning and doing science Planning Science Instruction for Emergent Bilinguals blends theory and practice so readers understand both how and why this planning process can be used to disrupt social inequity for emergent bilinguals Book Features Describes intentional decisions that educators can make when planning a science unit or learning experience Shows how to weave together Next Generation Science Standards Common Core English Language Arts Standards and language development Provides a model unit about kelp forest ecosystems to illustrate how theory is translated into practice Demonstrates how to use emergent bilinguals assets linguistic skills family experiences personal interests to create engaging science instruction Provides a set of planning tools including both blank templates and completed examples to guide educators through the planning process

**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

**The Go-To Guide for Engineering Curricula, PreK-5** Cary I. Sneider, 2014-09-05 How to engineer change in your elementary science classroom With the Next Generation Science Standards your students won t just be scientists they ll be engineers But you don t need to reinvent the wheel Seamlessly weave engineering and technology concepts into your PreK 5 math and science lessons with this collection of time tested engineering curricula for science classrooms Features include A handy table that leads you straight to the chapters you need

In depth commentaries and illustrative examples A vivid picture of each curriculum its learning goals and how it addresses the NGSS More information on the integration of engineering and technology into elementary science education *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 Kim Bailey,Chris Jakicic,2013-07-23 Leverage teamwork to integrate the CCSS into your curriculum and build on a foundational knowledge of PLCs You ll gain a comprehensive understanding of the shifts required to implement the standards in core content areas and find valuable tips and strategies for creating strong collaborative practices Identify the essential standards determine learning targets define proficiency learn how to design rigorous assessments and more *The Ultimate Student Teaching Guide* Kisha N. Daniels,Gerrelyn C. Patterson,Yolanda L. Dunston,2013-12-26 Concise and focused on practical strategies this engaging lighthearted guide provides teacher candidates a road map for negotiating the complex and diverse terrain of pre K through 12 schools while providing opportunities to develop the skills of reflection that are crucial to becoming a successful practitioner The Second Edition provides practical research based field tested strategies that student teachers can immediately apply as they encounter school concerns solve classroom challenges negotiate social conflicts and new to this edition navigate the job search and interview process Concluding chapters challenge readers to view student teaching as a process and to use reflection as a tool for professional growth Thoroughly updated throughout the Second Edition includes expanded coverage of workplace professionalism an introduction to accreditation and the Common Core standards and more

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      *Becoming Scientists* Rusty Bresser, Sharon Fargason, 2023-10-10 Most important to being a good science teacher is holding the expectation that all students can be scientists and think critically Providing a thinking curriculum is especially important for those children in diverse classrooms who have been underserved by our educational system *Becoming Scientists* Good science starts with a question perhaps from the teacher at the start of a science unit or from the children as they wonder what makes a toy car move how food decomposes or why leaves change color Using inquiry science children discover answers to their questions in the same way that scientists do they design experiments make predictions observe and describe offer and test explanations and share their conjectures with others In essence they construct their own understanding of how the world works through experimentation reflection and discussion Look into real classrooms where teachers practice inquiry science and engage students in the science and engineering practices outlined in the Next Generation Science Standards Rusty Bresser and Sharon Fargason show teachers how to do the following Build on students varied experiences background knowledge and readiness Respond to the needs of students with varying levels of English language proficiency Manage a diverse classroom during inquiry science exploration Facilitate science discussions Deepen their own science content knowledge As the authors state Inquiry science has little to do with textbooks and lectures and everything to do with our inherent need as a species to learn about and reflect on the world around us Join your students on a journey of discovery as you explore your world via inquiry      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

**Handbook of Research on Science Education, Volume II** Norman G. Lederman, Sandra K. Abell, 2014-07-11 Building on the foundation set in Volume I a landmark synthesis of research in the field Volume II is a comprehensive state of the art

new volume highlighting new and emerging research perspectives The contributors all experts in their research areas represent the international and gender diversity in the science education research community The volume is organized around six themes theory and methods of science education research science learning culture gender and society and science learning science teaching curriculum and assessment in science 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 the 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 and graduate students and leading to new insights and directions for future research the Handbook of Research on Science Education Volume II is an essential resource for the entire science education community

Streamlining the Curriculum Heidi Hayes Jacobs, Allison Zmuda, 2023-09-18 A game changing resource for educators looking to elevate their unit and lesson plans increase student engagement and improve home school communication With so many standards to address and templates to fill out curriculum design and lesson planning can be cumbersome and overwhelming And every teacher knows the struggle of trying to cover all the required content which may or may not resonate with their students In Streamlining the Curriculum experts Heidi Hayes Jacobs and Allison Zmuda take a hard look at our overburdened dated curricular practices and offer a better way one built on the power of narrative Their storyboard approach casts students as the heroes of the learning journey Instead of passive recipients they become protagonists activity engaged in exploring new ideas solving problems finding connections enlisting allies and acquiring new skills and understandings to apply to both present and future challenges This innovative book teaches you how to Decide what to cut out cut back consolidate and create in your lessons and units Find the throughlines in your required content and approach lesson design and teaching as storytelling no matter what subject area or grade level you teach Apply genre lenses to make courses units and lessons more compelling Communicate clear learning targets to your students and their families Create space for exploring essential questions investigating intriguing ideas and conducting projects that feel relevant and important Determine purposeful and authentic evidence of learning Filled with examples and insights this book shows educators how to break free from the tyranny of templates and start streamlining curriculum assessment and planning to make learning experiences more immersive interesting and emotionally resonant

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 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* **STEM-Infusing the Elementary Classroom** Miranda Talley Reagan, 2016-02-19 Make learning relevant with STEM essential questions This engaging teacher friendly guide helps teachers quickly and confidently infuse STEM concepts into all content areas Real world vignettes sample lesson templates discussion questions and immediately applicable action steps help you seamlessly promote college and career ready skills Use this inspiring guide to Deepen all content areas including English Language Arts Promote the 4Cs communication collaboration critical thinking and creativity Require students to take risks to solve problems Differentiate instruction and scaffold support Expand students specific measurable capabilities Incorporate design skills into the curricula Save valuable time and confidently develop standards aligned STEM projects in all content areas 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 *Active Literacy Across the Curriculum* Heidi Hayes Jacobs, 2017-09-25 Help students become more confident and successful readers writers and thinkers in today's world In this new edition of a bestseller highly acclaimed author and speaker Heidi Hayes Jacobs offers practical ideas for closing the literacy gap by teaching classic literacies reading writing speaking and listening along with essential new literacies digital media and global The expanded second edition features Heidi's latest work on the new literacies and provides enhanced

versions of strategies designed to help educators integrate critical language skills into their daily operational curriculum These strategies include Revising and expanding the role of all teachers so that they see themselves as classical language and contemporary literacy teachers Separating vocabulary into three distinctive types with distinctive instructional approaches to sustain and extend independent language development Building creative and visual notetaking and sketchnoting strategies Designing media projects for every class level and employing a consistent editing and revision policy for writing assignments Using a formal approach to develop speaking skills through four discussion types to increase civil public discourse Employing direct technical instruction that promotes the use of the human voice and body as a speaking and communication instrument Using Curriculum Mapping to develop formal benchmark assessments for active literacy and new literacy cultivation in every subject and on every level Each chapter is focused on a specific strategy and includes practical examples so you can easily implement the ideas no matter what grade level or subject area you teach      *Clarity for Learning*

John Almarode, Kara Vandas, 2018-10-24 An essential resource for student and teacher clarity With the ever changing landscape of education teachers and leaders often find themselves searching for clarity in a sea of standards curriculum resources and competing priorities Clarity for Learning offers a simple and doable approach to developing clarity and sharing it with students through five essential components crafting learning intentions and success criteria co constructing learning intentions and success criteria with learners creating opportunities for students to respond effective feedback on and for learning students and teachers sharing learning and progress The book is full of examples from teachers and leaders who have shared their journey struggles and successes for readers to use to propel their own work forward

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