

# 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 a medium, the waves are longer, and the sound produced has a lower frequency.
- To make observations and find evidence that dense materials conduct 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 Standards Pacing Guide

**Kisha N. Daniels, Gerrelyn C.  
Patterson, Yolanda L. Dunston**



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

**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 *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 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

### **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 **Becoming Scientists** Rusty Bresser, Sharon Fargason, 2013 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 OCo 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 OCo 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 [Make It Happen](#) Kim Bailey,Chris Jakicic,2018-12-07 Ensure every educator is engaged in the right work with a collective focus on improved student learning Aligned to the Professional Learning Communities PLC at Work model this resource includes instructional coaching tools processes protocols templates tips and strategies designed to support the multidimensional work of instructional coaches and PLC training Each chapter includes action steps and reflective coaching activities as well as suggestions for navigating some of the most common issues instructional coaches face Use this book to understand the unique requirements of instructional coaches in building a school that answers the four critical questions of a PLC at Work Learn how to provide PLC training and professional development for collaborative teacher teams Study three major variables that will affect instructional coaching capacity culture and context and four major actions that will act as guiding principles Explore issues that can arise in PLC schools as well as teacher coaching strategies to help resolve these issues Deepen your understanding of instructional coaching in a PLC with helpful online reproducibles and teacher coaching tools Acquire capacity building strategies aligned to the four PLC questions Contents Introduction Chapter 1 How to Get Started as an Instructional Coach Chapter 2 What Do We Want Students to Know and Be Able to Do Chapter 3 How Will We Know if They Have Learned It Chapter 4 How Will We Respond When Some Students Do Not Learn Chapter 5 How Will We Extend the Learning of Students Who Are Already Proficient Epilogue Maintaining the Momentum and Sustaining the Process References and Resources Index [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 *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

**Science for All Children** Ralph E. Martin,1998 Grade level 1 2 3 4 5 6 7 e p i t Principal Leadership ,2006

**Resources in Education** ,1996 Next-generation Computers Edward A. Torrero,1985 **Environmental Issues and Sustainable Futures** Michael Marien,1996 This guidebook will change the way you think about environmental issues and the need for a sustainable future It knits together 450 abstracts selected from recent issues of Future Survey and Future Survey Annual The essential books and reports reviewed here were written by environmentalists futurists social scientists biologists journalists and politicians The categories are environmental issues toward sustainability and politics and planning The guide has five purposes 1 to record and highlight important books and reports on environment and sustainability published in recent years 2 to provide an illuminating taxonomy that suggests new pathways for action and analysis 3 to sketch a map of who says what about the most important environmental issues and related policy proposals 4 to offer guidance for the beginning student 5 to demonstrate the urgency of environmental issues and the worldwide quest for a sustainable future **Pidgins and Creoles in Education (PACE) Newsletter** ,1990 **Science** John Michels

(Journalist),1883 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN 0018 0120 1st 15th meeting Library & Information Science Abstracts ,2006 **Pace** , **Humanistic Mathematics Network**

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Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833  
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