

# NGSS SCIENCE 4

## Standards & Objectives

### Addressed in Sound Energy

**Overarching Question:** How does sound energy travel?

**Standard Addressed:**  
4.PS.2.2 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 vibration.
2. To make observations and provide evidence that sound travels in all directions.
3. To understand that sound waves travel occur through compression and rarefaction.
4. To make observations and find evidence that increasing force/energy increases the amplitude.
5. 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.
6. 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.
7. 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 Kindergarten Pacing Guide

**Wolfgang Guggemos**



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

**A Student's Guide to Academic and Professional Writing in Education** Katie O. Arosteguy, Alison Bright, Brenda J. Rinard, 2019 This concise handbook helps educators write for the rhetorical situations they will face as students of education and as preservice and practicing teachers It provides clear and helpful advice for responding to the varying contexts audiences and purposes that arise in four written categories in education classroom research credential and stakeholder writing The book moves from academic to professional writing and chapters include a discussion of relevant genres mentor texts with salient features identified visual aids and exercises that ask students to apply their understanding of the concepts Readers learn about the scholarly and qualitative research processes prevalent in the field of education and are encouraged to use writing to facilitate change that improves teaching and learning conditions At the heart of this book is a commitment to the value of teachers voices From the Foreword by Mya Poe director Writing Program Northeastern University This book is one tool to help prospective educators embrace all the writing that is to come Anne Elrod Whitney Penn State College of Education The authors know the questions students might ask and the places where they might misstep The book is supportive analytical logically sequenced clear and student friendly Tim Dewar UC Santa Barbara

**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

**STEM: Innovation on Teaching and Learning** Vanda Santos, Cecília Costa, Dina Tavares, 2025-02-04 This Research Topic is focused on STEM education based on this model several studies have emerged on innovative approaches on teaching and learning In order to meet the demands of developing students for the 21st century skills and given the appropriate characteristics for this goal of the STEM model further research is needed on this topic Being so it is justified to carry out more research on STEM approaches such as with pre service teachers in service teachers and all levels of education This research topic provides a stimulating and informative variety of research papers that expand and deepen our theoretical understanding on STEM innovations on teaching and learning Taking into account the demands of developing students for the 21st century skills in this Research Topic we aim to collect high quality studies focused on STEM model

related to pre service teachers in service teachers as well as students of all levels of education We also intend to cover the largest variety of topics addressing this specific matter that could help to foster STEM implementation in the classroom to sharing STEM model education training experiences Furthermore we are interested in contributions that provide deepening insights into the challenges and opportunities involved in adopting STEM education in teaching and learning in a sustainable way

**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

**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

**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 **Moving From Spoken to Written Language With ELLs** Ivannia Soto,2014-06-20 Mastering spoken language is the key to writing success for English Language Learning ELLs struggle to meet the writing demands of the Common Core State Standards In this book ELL expert Ivannia Soto demonstrates how oral language development is the key to building writing skills She offers educators a powerful set of tools for implementation at both classroom and policy levels including Exciting spoken techniques such as Socratic Seminar Frayer model and Think Pair Share that build vocabulary and extend into academic writing Approaches to teaching three essential styles of writing argumentative procedural and narrative Sample lesson plans and graphic organizer templates *Academic Language in Diverse Classrooms: English Language Arts, Grades 3-5* Margo Gottlieb,Gisela Ernst-Slavit,2013-09-23 Make every student fluent in the language of learning Language has always been the center of English Language Arts but with most states adopting CCSS the focus on language and literacy across the content areas is required Today it s more essential than ever that English language learners and proficient English learners have the supports to access and achieve the language of school The Common Core and ELD standards provide pathways to academic success through academic language Using an integrated Curricular Framework districts schools and professional learning communities can Design and implement thematic units for learning Draw from content and language standards to set targets for all students Examine standards centered materials for academic language Collaborate in planning instruction and assessment within and across lessons Consider linguistic and cultural resources of the students Create differentiated content and language objectives Delve deeply into instructional strategies involving academic language Reflect on teaching and learning With dynamic classrooms and units of learning this book gives you a streamlined path for designing and implementing curriculum that leads to student mastery of academic language the key to school success These volumes are packed with practical ideas that will help all teachers attend to language within their classrooms from the discourse level to word phrase levels This is a road map for teaching Common Core content in language rich classrooms and hence a resource every teacher needs within arm s reach It s all here and clearly presented this is pure gold for everyone who teaches students to speak listen read and write in school with special attention to English language learners Tim Boals Executive Director of WIDA [The in STEAM](#) Jerilou Moore,Kerry Holmes,2021-11-15 Discover new and exciting ways to teach STEM content through the arts in your early childhood program with this innovative and comprehensive guidebook Chapters feature playful activities divided by age band that bridge early academic learning and social emotional physical and mental development with active engagement in the arts Structured activities include a materials list safety concerns key takeaways and related readings as well as explicit connections to research and national standards With clear and concise lesson plans

that walk you through activities in music dance media arts visual arts and theater it becomes easy to bring development and learning through movement and creativity to your classroom or program      **The 2016-17 Budget** California. Legislature. Joint Legislative Budget Committee. Legislative Analyst,2016      *Clearing* ,2006      Resources in Education ,1997  
Journal of Education ,1892      The Publishers' Trade List Annual ,1970      **Directory of Distance Learning Opportunities** Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation      **Illinois Research** ,1991      *ERIC Educational Documents Index* Educational Resources Information Center (U.S.),1966 A subject author institution index which provides titles and accession numbers to the document and report literature that was announced in the monthly issues of Resources in education earlier called Research in education      Current Index to Journals in Education ,1997-04      **Subject Guide to Books in Print** ,1991      **The New York Times Magazine** ,1965

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