

NGSS SCIENCE 4

Standards & Objectives

Addressed in Sound Energy

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

Pacing Guide For Next Generation Science Standards

Danae de los Ríos



Pacing Guide For Next Generation Science Standards:

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

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 **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 **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

Space Science: Teacher's ed, 2005 *Principal Leadership*, 2006 **Successful Schools and Educational Accountability** Kenneth K. Wong, Anna Nicotera, 2007 This text in AB's new Educational Leadership series from Peabody College discusses how the standards and accountability movement has affected teachers and school leaders and illustrates its impact on learning This text stands out due to authorship and breadth of research used It was developed by the leading scholars in educational accountability as part of a series from one of the leading Schools of Education in the world No other text discusses policy and practice in such a systematic way with such a strong basis in current research

K-12 Classroom Teaching Andrea M. Guillaume, 2008 K 12 Classroom Teaching A Primer for New Professionals is a teaching guide written in clear reader friendly language In the Primer readers explore key aspects of classroom teaching including the context of teaching today strategies for learning about students planning and assessment instruction and instructional strategies classroom management finding a personal educational stance and growing professionally Each chapter is designed to cover the material thoroughly and concisely so that readers can make the best use of their time This book encourages readers to reflect on their past experiences to question their assumptions to consider multiple sources of information and to commit to enacting well defined notions of good practice that address learners diverse needs while honoring the dignity of the human experience

Coordinating Instruction in Two Comprehensive School Reforms Danae de los Ríos, 2007 **Human Biology** James Trefil, 2005 **McDougal Littell Science** McDougal Littell Incorporated, 2005 Earth's Surface: Teacher's ed, 2005 *Curriculum Connections Through the Library* Barbara K. Stripling, Sandra Hughes-Hassell, 2003-10-30 A collection of essays which explore the educational principles and research and connects national curriculum trends to

current library practice **Modules** ,2005
McDougal Littell Incorporated,2005

CA Te Am Anthem 2007 Mod Holt Rinehart & Winston,2007

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The Top Books of the Year Pacing Guide For Next Generation Science Standards The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. Pacing Guide For Next Generation Science Standards : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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