

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

Pacing Guide For Next Generation Science Standards

Silva Pimentel, Diane, Terrell, Karen L.



Pacing Guide For Next Generation Science Standards:

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.

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.

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.

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 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

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 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 *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 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

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

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

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 **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 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 **Learning to Be Teacher Leaders** Amy D. Broemmel, Jennifer Jordan, Beau Michael Whitsett, 2015-08-20 Learning to Be Teacher Leaders examines three integrated components of strong pedagogy assessment planning and instruction within a framework emphasizing the knowledge skills and dispositions that can empower teachers to become teacher leaders within their schools Combining the what why and how of teaching the research based concepts presented in a pragmatic format are relevant across grade levels classrooms and content areas Designed to support success on national licensure assessments this text brings together in one place the important features of learning to be an effective teacher and becoming a teacher leader who continues to grow and develop within the profession Taking a student centered approach to instruction it also recognizes the outside factors that can challenge this approach and provides strategies for coping with them Using this book as a guide and resource pre service and beginning teachers will focus on the most important factors in teaching resulting in strengthening their pedagogy and developing a language that helps them move forward in terms of agency and advocacy A Companion Website provides additional resources for instructors and students **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 **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 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 **Transforming Teaching Through Curriculum-Based Professional Learning** James B. Short,Stephanie Hirsh,2022-08-12 The future of professional learning starts here Even the most experienced teachers provided with the highest quality instructional materials benefit from additional support to ensure student success Simply adopting new instructional materials is unlikely to significantly change teacher practice Ensuring a level of excellence that benefits all students calls for an approach to professional learning that is anchored in the use of high quality curriculum and grounded in immersive learning experiences for all teachers Transforming Teaching Through Curriculum Based Professional Learning offers a framework for practitioners looking to undertake this work The curriculum based professional learning detailed here enables teachers to deepen their understanding of the essential components of

successful curriculum implementation and work together to provide instruction that has a positive impact on student engagement and learning Features include Detailed case studies based on actual schools and districts that illustrate the elements of curriculum based professional learning in action Detailed guidance on the roles and responsibilities of teachers administrators and other stakeholders Comparison charts that show the distinctions between curriculum based professional learning and more traditional forms of professional development Elements icons that help readers navigate each chapter of the book Teachers jobs are changing in real time When they are supported with both high quality instructional materials and curriculum based professional learning they can position our schools to achieve the dual goals of equity and excellence

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

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