

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

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**Science Curriculum Improvement
Study**



Ngsss Science Pacing Guide:

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 *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 **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

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

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

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to support our efforts and infuse the components of the Next Generation Science Standards in our instruction through inquiry It should be at the elbow of every teacher interested in understanding inquiry and meeting the challenge Linda Froschauer Past President National Science Teachers Association Physical Science Sequence Science Curriculum Improvement Study,1970 **Physical Sciences for NGSS - Teacher's Edition** Benjamin J. Westleigh,Tracey Greenwood,Kent Pryor,Lissa Bainbridge-Smith,2020-09-14 The Teacher s Edition is identical to the student edition but with additional teacher only features including Model Answers in place Embedded 3 dimensional coding Identification of performance expectations and Common Core State Standards in situ and in alignment tables Pedagogical guidance and assistance with approach pacing and use in differentiated classroom Extra material for extending gifted and talented students Biology for NGSS (3rd Ed) - Teacher's Edition Jill Mellanby,Lissa Bainbridge-Smith,Kent Pryor,2022-07-15 The Teacher s Edition of the Biology for NGSS textbook is an invaluable resource for teachers who are looking to implement the Next Generation Science Standards NGSS framework effectively in the classroom This edition is identical to the student edition but with additional teacher only features that help teachers to deliver the curriculum in a differentiated and engaging way One of the key features of the Teacher s Edition is the inclusion of model answers which provide teachers with a clear understanding of how students are expected to answer questions and complete activities In addition the Classroom Guide is also included providing pedagogical guidance and assistance with approach pacing and use in a differentiated classroom The Teacher s Edition also features a full mapping of the 3 dimensions of NGSS ensuring that teachers have a comprehensive understanding of how the curriculum is structured and how it aligns with the NGSS framework The guide provides a range of teaching strategies using the BIOZONE solution including scaffolded learning using the 5Es instructional model as the basis for the sequencing of activities using collaborative learning in a differentiated classroom and strategies for ELD ELA To further support teaching and learning the Teacher s Edition includes strategies for extending gifted and talented students promoting inquiry using practical investigations assigning activities for homework self study and formative and summative assessment including specifically identified performance expectations The edition also addresses the Common Core State Standards for math and literacy ensuring that students have the skills they need to succeed in a wide range of academic disciplines In addition the Teacher s Edition provides embedded 3 dimensional coding identification of performance expectations and Common Core State Standards in situ and in alignment tables and extra material for extending gifted and talented students Finally the edition features a long answer section providing teachers with additional resources to use in the classroom Overall the Teacher s Edition of the Biology for NGSS textbook is an essential resource for any teacher looking to implement the NGSS framework effectively and engage students in the learning process **Science Anytime** Harcourt School Publishers Staff,1995-01-01 **Science in Action** ,1998

Whispering the Secrets of Language: An Psychological Journey through **Ngsss Science Pacing Guide**

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