

INDIANA SCIENCE 4

Standards & Objectives

Overarching Question: How does sound energy travel?

Standard Addressed:

4-PS2-2 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 produces a louder sound.
5. To make observations and find evidence that when sound waves move from one medium to another, the sound produced has a lower frequency.
6. To make observations and find evidence that dense materials conduct sound better than less dense materials and that sound bounces off flat surfaces.
7. To make observations and find evidence that sound travels faster through liquids and gases than through solids.

Pacing Guide

Suggested Order of Instruction - Energy

9.11 weeks

In the first six weeks, students engage and explore four types of energy on 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

Wv Fourth Grade Science Pacing Guide

Diana Marie Ellis



Wv Fourth Grade Science Pacing Guide:

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Table of Contents Wv Fourth Grade Science Pacing Guide

1. Understanding the eBook Wv Fourth Grade Science Pacing Guide
 - The Rise of Digital Reading Wv Fourth Grade Science Pacing Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Wv Fourth Grade Science Pacing Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Wv Fourth Grade Science Pacing Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wv Fourth Grade Science Pacing Guide

- Personalized Recommendations
 - Wv Fourth Grade Science Pacing Guide User Reviews and Ratings
 - Wv Fourth Grade Science Pacing Guide and Bestseller Lists
5. Accessing Wv Fourth Grade Science Pacing Guide Free and Paid eBooks
 - Wv Fourth Grade Science Pacing Guide Public Domain eBooks
 - Wv Fourth Grade Science Pacing Guide eBook Subscription Services
 - Wv Fourth Grade Science Pacing Guide Budget-Friendly Options
 6. Navigating Wv Fourth Grade Science Pacing Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Wv Fourth Grade Science Pacing Guide Compatibility with Devices
 - Wv Fourth Grade Science Pacing Guide Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Wv Fourth Grade Science Pacing Guide
 - Highlighting and Note-Taking Wv Fourth Grade Science Pacing Guide
 - Interactive Elements Wv Fourth Grade Science Pacing Guide
 8. Staying Engaged with Wv Fourth Grade Science Pacing Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Wv Fourth Grade Science Pacing Guide
 9. Balancing eBooks and Physical Books Wv Fourth Grade Science Pacing Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wv Fourth Grade Science Pacing Guide
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Wv Fourth Grade Science Pacing Guide
 - Setting Reading Goals Wv Fourth Grade Science Pacing Guide
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Wv Fourth Grade Science Pacing Guide

- Fact-Checking eBook Content of Wv Fourth Grade Science Pacing Guide
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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