

Essential Questions & Enduring Understandings

8th Grade Physical Science

Year Overview

(Addressing NGSS *The Nature of Science*)

Essential Questions:

1. What does *light*/*force* demand of us in each setting?
2. What makes a question scientific?
3. What constitutes evidence?
4. How can data be modeled?
5. How is mathematics used to model objects, events, and relationships?
6. How do you know when you have enough evidence?

Enduring Understandings:

1. Safety first!
2. Science is a way of knowing.
3. Scientific truths are built by consensus.
4. We are only as good as our models.
5. Define your system.
6. Things change until they reach equilibrium.
7. If x, then y.
8. The design process is ongoing.
9. The universe is under no obligation to make sense to you.
10. Debate is always on the table.
11. Science is best guess.
12. A graph is a tool.

Associated Big Ideas (Depth in Progress)

- Why do things change?
- What is the difference between data and model?
- What is scientific method and what isn't?
- To what extent do models capture our thinking? Limit of?
- How can we make technology work for us, not against us?
- What is scientific DC? How do we make NGSS?
- What experiments are we doing daily/weekly modeling?
- What is the difference between data and model?
- To what extent can properties of the real be used? (Material)
- Why are macroscopic things being modelled?
- What do we do to the real world of things, or events of things?
- What makes systems stable?
- How have scientists been what has been best for the world?
- What are the benefits of using a scientific tool? What are the limitations?
- Do atoms live in, or live on?
- To what extent do things beyond our control?
- How can people look at the same evidence and still disagree?
- What makes systems unstable? Model?
- To what extent do we feel effects of our thinking?
- Without a model, what would they say about the matter that is best?

Associated Big Ideas (Depth in Progress)

- Scientists call for NGSS
- Best data wins
- Mathematics is a tool used to describe facts, events, and relationships in the real and designed world.
- One model has pros and cons (no table can work for or against us)
- Engineers work NGSS through the lens
- Greater evidence is better (not) and consistency in observations.
- Science is a human endeavor
- Nature has no consciousness
- Matter always remains
- Energy always remains
- Scientists speak truth
- Scientific knowledge is based on the use of empirical evidence.
- Science is a practice, and a body of knowledge.
- Every model is an approximation
- All measurement includes error
- It's scientific to get better
- Evidence is money

Essential Questions Physical Science

Camilla Rothe



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Table of Contents Essential Questions Physical Science

1. Understanding the eBook Essential Questions Physical Science
 - The Rise of Digital Reading Essential Questions Physical Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Essential Questions Physical Science
 - 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 Essential Questions Physical Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Essential Questions Physical Science
 - Personalized Recommendations
 - Essential Questions Physical Science User Reviews and Ratings
 - Essential Questions Physical Science and Bestseller Lists
5. Accessing Essential Questions Physical Science Free and Paid eBooks

- Essential Questions Physical Science Public Domain eBooks
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 - Essential Questions Physical Science Budget-Friendly Options
6. Navigating Essential Questions Physical Science eBook Formats
 - ePub, PDF, MOBI, and More
 - Essential Questions Physical Science Compatibility with Devices
 - Essential Questions Physical Science Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Essential Questions Physical Science
 - Highlighting and Note-Taking Essential Questions Physical Science
 - Interactive Elements Essential Questions Physical Science
 8. Staying Engaged with Essential Questions Physical Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Essential Questions Physical Science
 9. Balancing eBooks and Physical Books Essential Questions Physical Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Essential Questions Physical Science
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Essential Questions Physical Science
 - Setting Reading Goals Essential Questions Physical Science
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Essential Questions Physical Science
 - Fact-Checking eBook Content of Essential Questions Physical Science
 - 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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