

# Fourth Grade Science: The Scientific Method

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**Introduction:** Students will learn and explore all of the key parts of the Scientific Method including the question, hypothesis, materials, procedure, results, and conclusion. After they learn the key parts, they will have the opportunity to choose 1 of 2 experiment choices to use and practice the Scientific Method on.

**Prior Knowledge:** Students must know how to use safety precautions during experiments in the classroom, how to navigate certain technological resources such as YouTube, Mindmap, Educanon (video quiz throughout video), and Quibblo, and will have to know how photosynthesis in plants works (for the experiment).

**Objective:** To have students learn the Scientific Method and then to have them test out the entire process by conducting one of the two experiment choices. In addition, another objective is to have students understand the importance that light has in photosynthesis (seen during the experiment).

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## **Materials:**

**First Part of Class:** Smart Board, technological resources such as YouTube, Mindmap, Educanon (video quiz throughout video) Quibblo, and iPads for each student to use.

**Second Part of Class:** Materials for the experiment = brown paper bags, plastic cups, dirt, plant seeds, natural sunlight, water, sharpie, and Scientific Method worksheet.

**Time:** Total time for class = 1 hour, 15 min

**Exploring the Scientific Method** = First 45 minutes

**Putting the Scientific Method into action in experiment** = Last 30 minutes

## **Process:**

### **First part of Class:**

1. Students will watch a short video lecture created by the teacher (me) covering all of the basics about the Scientific Method. This will take 10 minutes.
2. Students will take out their iPads to do some learning on their own. They will watch a podcast about how to write a good scientific question with the link below:

# Lesson Plans Mini Lesson Science Fourth Grade

**University of Northern Colorado**

A red circular graphic with a gradient, appearing as a partial circle on the right side of the slide, overlapping the light blue bar.

## **Lesson Plans Mini Lesson Science Fourth Grade:**

**Teaching Reading Across the Day, Grades K-8** Jennifer Serravallo,2024-04-12 Reading well across disciplines and within varied contexts will help students to be versatile flexible deep readers who can better learn from their reading transfer skills across subjects and use strategies to meet the unique demands of reading in each content area Jennifer Serravallo Research based easy to use lesson structures for explicit and engaging teaching In Teaching Reading Across the Day literacy expert Jennifer Serravallo provides nine effective predictable research based lesson structures that help busy teachers save planning time and focus their teaching and student attention on content rather than procedures Each of the nine lesson structures read aloud phonics and spelling vocabulary focus shared reading close reading guided inquiry reader s theater and conversation has its own chapter and features a wealth of resources that let you see the lessons in action in ELA Science and Social Studies classes including An annotated teaching vignette lesson explanation and research notes Tips for planning structure and timing suggestions and ideas for responsive teaching Detailed planning templates and 22 accompanying online videos covering over 3 hours of classroom footage Jen s reflections key look fors and ideas for next steps The nine lesson structures can be used with any curriculum or core program text and subject making it easier for teachers to maximize explicit and engaging teaching time across the day and simplify planning and preparation Jen incorporates a wide range of compelling research about how best to teach reading to every student in your class and translates the research or the science of teaching reading into high leverage moves you can count on to deliver powerful lessons again and again She also honors the art of teaching reading helping teachers tap into their experience and hone their expertise to make quick effective classroom decisions that take student learning to the next level **Nourishing**

**Vocabulary** Shira Lubliner,Judith A. Scott,2008-04-29 Focuses on supporting students academic development with targeted vocabulary instruction and provides strategies for vocabulary acquisition read alouds independent reading and decoding unknown words *Resources in Education* ,1980-11 *Reader's Theater Scripts: Improve Fluency, Vocabulary, and Comprehension: Grade 2* Lisa Zamosky,2010-02-01 Set the stage for learning Improve Grade 2 students reading fluency while providing fun and purposeful reading practice for performance You ll motivate students with these easy to implement reader s theater scripts that also build students knowledge through grade level content Book includes 11 original leveled scripts graphic organizers and a Teacher Resource CD including scripts PDFs and graphic organizers This resource is correlated to the Common Core State Standards 104pp **Getting to Work on Summer Learning** Catherine H.

Augustine,Jennifer Sloan McCombs,Heather L. Schwartz,Laura Zakaras,2013-08-13 RAND is conducting a longitudinal study that examines the implementation and effectiveness of voluntary summer learning programs This second report in the series provides research based advice for school district leaders developing summer programs [The Best Web Sites for Teachers](#) Vicki F. Sharp,Martin G. Levine,Richard M. Sharp,2002 [Elementary Teacher's Treasury of Science Lesson Plans](#) Rita

Langley,1971 **Teaching in the Intermediate Grades** George Earl Freeland,Roxana Morton Adams,Katharine Hedges  
Hall,1927 **Teaching Elementary Science** William K. Esler,Mary K. Esler,2001 Grade level 1 2 3 4 5 6 7 e p i t  
**Reader's Guide to Periodical Literature Supplement** ,1925 **Normal Instructor and Teachers World** ,1928  
**Atlantic Educational Journal** ,1910 *Catalog and Yearbook* University of Northern Colorado,1921 *Writer's  
Choice Cooperative Learning Activities Grade 8* McGraw-Hill Staff,2000-07 **Normal Instructor and Primary Plans**  
,1926 Intermediate and Grammar Methods William Francis Rocheleau,1909 Public School Methods ,1918  
Vocational Education Magazine ,1922 *The Organized Teacher's Guide to Classroom Management, Grades K-8,  
Second Edition* Steve Springer,Kimberly Persiani,2019-06-22 Discover strategies and tools to make your classroom run more  
smoothlyClassroom management can be challenging even for experienced teachers Written by two award winning educators  
this practical guide is filled with tips and protocols to help you manage your classroom more efficiently There s advice on  
setting up your classroom establishing rules dealing with difficult students meeting with parents and much more The authors  
also examine teaching theories from leading educators and offer guidance to help you determine the best teaching style for  
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help you Find strategies to keep your classroom running smoothly Determine which teaching style is most appropriate for  
you Establish rules consequences and procedures Manage student behavior in the classroom Create more inspired lesson  
plans and curricula Get organized with reproducible charts checklists and more Greatest Hits of Environmental  
Education ,1993 Descriptions of model environmental education projects that were funded by the Environmental Education  
Grant Program in California from 1983 through 1991 Projects were selected for grants by fitting specific environmental  
education criteria The programs encourage efforts and innovations at the school district level to help students learn about  
their interrelationships with the natural and human environment practice making decisions which enhance the quality of life  
and learn to conserve energy and other natural resources Emphasis is placed on partnerships with local community  
resources and rethinking science curriculums Grant projects were also encouraged to restructure curriculum to integrate  
learning across disciplines and ages Projects are clearly coded with the environmental concepts emphasized and include a  
description of the project the grades appropriate for the activities the year the grant was used and school contact information  
Projects are designed for a range of ages from kindergarten through high school

## The Enigmatic Realm of **Lesson Plans Mini Lesson Science Fourth Grade**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Lesson Plans Mini Lesson Science Fourth Grade** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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really the state of the world if anyone tells me to go back to english class i ll shoot them

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