

National Science Education Standards in Summary

Science Wonders	K-4	K-4	K-4	K-4	K-4	K-4	K-4
Activities	A	B	C	D	E	F	G
Session 1: Introduction to Science Wonders							
Science Journal	X						X
Fiber Exploration		X	X		X	X	
Session 2: Homemade Recycled Paper							
Deckled & Paper Prep		X			X		
Making Recycled Paper		X	X		X	X	X
Session 3: Home-Grown Crystals							
Crystal Quest	X	X		X			
Suspended Sugar Crystals		X		X	X		
Session 4: Magnet Hunt							
The Nut Crisis		X			X		
Feeling the Force		X		X		X	
To Attract or Not to Attract	X	X		X	X		
Magnetic Force		X			X		X
Session 5: Presto Change-O							
Change		X	X		X		X
Balloon Blow-Up		X			X		
Science Journal Assembly	X						X

¹National Research Council. (1996). *National Science Education Standards*. Washington, DC: National Academy Press

National Science Education Standards Text Summary

A. Science as Inquiry

As a result of activities in grades K-4, all students should develop

- Abilities necessary to do scientific inquiry
- Understanding about scientific inquiry

B. Physical Science

As a result of the activities in grades K-4, all students should develop an understanding of

- Properties of objects and materials
- Position and motion of objects
- Light, heat, electricity, and magnetism

C. Life Science

As a result of activities in grades K-4, all students should develop understanding of

- The characteristics of organisms
- Life cycles of organisms
- Organisms and environments

D. Earth and Space Science

As a result of their activities in grades K-4, all students should develop an understanding of

- Properties of earth materials
- Objects in the sky
- Changes in earth and sky

E. Science and Technology

As a result of activities in grades K-4, all students should develop

- Abilities of technological design
- Understanding about science and technology
- Abilities to distinguish between natural objects and objects made by humans

F. Science in Personal and Social Perspectives

As a result of activities in grades K-4, all students should develop understanding of

- Personal health
- Characteristics and changes in populations
- Types of resources
- Changes in environments
- Science and technology in local challenges

G. History and Nature of Science

As a result of activities in grades K-4, all students should develop understanding of

- Science as a human endeavor

ⁱⁱNational Research Council. (1996). *National Science Education Standards*. Washington, DC: National Academy Press.