

## Core Skills Analysis

### Science

- The student learned to recognize several chemical elements and identify them on the periodic table using Elmer's cards.
- By associating card information with periodic table positions, the student developed an understanding of element symbols and their arrangement.
- Engaging with cards encouraged memorization of elemental properties such as atomic number and element groupings.
- The activity helped the student grasp the concept of elements as fundamental building blocks of matter.

### Reading and Literacy

- Reading the book on elements improved the student's comprehension of scientific vocabulary and terminology related to chemistry.
- The student practiced decoding and understanding informational text within the context of science.
- Interpreting the cards required attention to detail and reinforced reading for factual information.
- Engagement with both textual and visual materials nurtured multimodal literacy skills.

### Tips

To deepen understanding, encourage the student to explore additional elements beyond those on the cards, perhaps by creating their own cards including fun facts or applications of each element. Hands-on activities such as simple safe experiments (like identifying metals around the house) or virtual periodic table games can make learning interactive and memorable. For reading skills, parents or teachers can discuss the meanings of new scientific words and ask the student to summarize what they learned to build retention. Continuing to connect reading with real-world examples will enhance both literacy and scientific inquiry.

### Book Recommendations

- [The Periodic Table: Elements with Style!](#) by Natalie M. Rosinsky: A colorful and engaging introduction to the periodic table and its elements, perfect for young learners.
- [Ada Lace, on the Case](#) by Emily Calandrelli: A series blending science and reading skills, encouraging curiosity in STEM topics like chemistry.
- [Elemental Detective](#) by Christopher J. Schmitt: A fun mystery story that teaches basic chemistry concepts through problem-solving adventures.

### Learning Standards

- CCSS.ELA-LITERACY.RI.3.1: Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the basis for answers.
- CCSS.ELA-LITERACY.RI.3.4: Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 3 topic or subject area.
- NGSS 4-PS1-1: Develop a model to describe that matter is made of particles too small to be seen.