

Core Skills Analysis

Science

- Henry learned the basic concept of force, observing how objects move and change direction due to pushes and pulls.
- By seeing examples like bumper bowling and tug boats with barges, Henry understood that different forces can cause movement in varying directions and speeds.
- Henry practiced verbal hypothesizing, which shows an ability to predict what might happen when forces are applied, demonstrating early scientific thinking skills.
- The video activity helped Henry recognize cause and effect relationships between force and motion, foundational to physical science concepts.

Tips

To deepen Henry's understanding of force and direction, encourage hands-on activities such as pushing toy cars or using small ramps to observe movement. Experimenting with objects of different weights can help illustrate how force affects motion. Additionally, drawing diagrams of forces and directions after watching videos can consolidate learning. Asking Henry to predict outcomes before testing and explaining observations after experiments will promote critical thinking. Activities like simple tug-of-war games or rolling different balls can also make learning about forces interactive and enjoyable.

Book Recommendations

- [Forces Make Things Move](#) by Kimberly Brubaker Bradley: A colorful, engaging book that introduces young children to the basic concepts of forces and motion through simple text and illustrations.
- [Motion: Push and Pull, Fast and Slow \(Let's-Read-and-Find-Out Science\)](#) by Jennifer Boothroyd: This book explains the notions of push and pull forces and how they affect objects' movement, perfect for early learners.
- [Whose Mouse Are You? \(Science Explorers\)](#) by Melvin Berger: While focusing on animal movement, this book also highlights different forces that make creatures move, linking to natural motion concepts.

Learning Standards

- Next Generation Science Standards (NGSS) K-PS2-1: Plan and conduct an investigation to compare the effects of different strengths or directions of pushes and pulls on the motion of an object.
- Common Core Speaking and Listening Standards K.SL.2: Confirm understanding through asking and answering questions about key details in a text read aloud or information presented orally.