

Core Skills Analysis

Science

- The student learned about density and the concept that oil and water do not mix.
- They observed a chemical reaction between the water, food coloring, and alka-seltzer, showing they can produce gases.
- Through the use of glitter, they explored how different components can be suspended or sink in the liquid, demonstrating the concept of buoyancy.
- The activity introduced the student to the idea of solubility as they saw how the alka-seltzer dissolves in water.

Tips

For further exploration after creating the lava lamp, encourage the child to experiment with different ratios of oil and water to see how it affects the movement of glitter and bubbles. To enhance their understanding of chemical reactions, try using different types of fizzy tablets or liquids to create various effects. Additionally, discuss the environmental impact of materials used and prompt discussions on recycling and sustainability.

Book Recommendations

- [What Is Science?](#) by Rebecca Kai Dotlich: A simple introduction to the world of science for young readers, encouraging curiosity and exploration.
- [Ada Twist, Scientist](#) by Andrea Beaty: Follow the story of a young girl who asks questions and conducts experiments in her quest to understand the world.
- [Water Can Be...](#) by Laura Purdie Salas: Explores the many forms and functions of water in an engaging and educational way for young children.