Core Skills Analysis

Science

- The student learned about the concept of density as they observed the oil floating on top of the vinegar and water due to the differences in densities among the liquids.
- Through the fizzing reaction of the bicarbonate soda and vinegar, the student understood the basic chemical reaction between an acid and a base, leading to the formation of carbon dioxide gas bubbles.
- The activity helped in understanding the states of matter as the student saw the liquids interacting in the form of bubbles and movements.
- By witnessing the mesmerizing visual effects of the swirling liquids, the child also grasped the concept of mixtures and their properties in a hands-on manner.

Tips

To further enhance the learning experience related to the lava lamp activity, consider introducing variations using different proportions of ingredients or adding food coloring to explore color mixing effects. Encourage the child to ask questions about why certain reactions occur and guide them in conducting simple research to understand the scientific principles behind the experiment. Additionally, promote discussions on environmental impact and sustainability by discussing the disposal of materials used in the activity.

Book Recommendations

- <u>Kitchen Science Lab for Kids: 52 Family Friendly Experiments from Around the House</u> by Liz Lee Heinecke: This book offers fun and educational science experiments using household items, perfect for young learners interested in hands-on activities like the lava lamp experiment.
- <u>ABCs of Science</u> by Chris Ferrie: A beginner science book that introduces basic scientific concepts in an engaging and age-appropriate manner, suitable for young children exploring experiments like the lava lamp activity.
- <u>National Geographic Little Kids First Big Book of Why</u> by Amy Shields: This book provides
 answers to curious questions about the world, making it a wonderful resource to complement
 hands-on science activities like the lava lamp experiment.