

## Core Skills Analysis

### Science

- Through the Ooblec activity, the student learned about non-Newtonian fluids and their unique properties.
- The activity demonstrated principles of polymers and their behavior under stress and pressure.
- By exploring Ooblec, the student grasped concepts of viscosity and shear thickening.
- The hands-on experience with Ooblec deepened the student's understanding of states of matter and rheology.

### Math

- The student applied mathematical concepts like volume and proportions while preparing the Ooblec mixture.
- By adjusting ratios of ingredients, the student engaged in practical math involving fractions and measurements.
- Observing Ooblec's behavior allowed the student to analyze changes in shape and size, relating to geometry.
- The experience with Ooblec provided a tangible way for the student to comprehend concepts of density and mass.

### Tips

For continued development post-Ooblec activity, encourage students to experiment with varying ratios of ingredients to observe the impact on the Ooblec's properties. In addition, prompt discussions on how these properties relate to real-world applications such as in food science or material engineering. Encouraging students to document their observations and findings can foster critical thinking and analytical skills. Finally, linking the activity to other hands-on experiments that showcase similar scientific phenomena can enhance their understanding and curiosity.

### Book Recommendations

- [Kitchen Science Lab for Kids](#) by Liz Lee Heinecke: This book offers engaging experiments using everyday materials, including Ooblec, to explore scientific concepts through fun activities.
- [STEAM Lab for Kids](#) by Liz Lee Heinecke: A collection of hands-on STEAM activities that integrate science, technology, engineering, art, and math, including experiments related to materials like Ooblec.
- [The Everything Kids' Science Experiments Book](#) by Tom Robinson: Featuring numerous easy-to-do science experiments, this book includes activities that can further expand a child's understanding of concepts like those explored with Ooblec.