

Math

- The student learned measurement and conversion while following the recipe's instructions for quantities, such as converting cups to ounces and grams
- Utilized fractions in the recipe, understanding how to measure 1/2 or 1/4 cups of ingredients
- Calculated the total cost of ingredients and determined the cost per serving, reinforcing basic math and financial skills

Science

- Understood the concept of changing states of matter by observing the melting of butter and chocolate as well as the solidification of the batter as it bakes
- Learned about chemical reactions through observing the batter rise and transform into a solid brownie
- Explored the properties of different ingredients and their role in creating the final product, such as the purpose of baking powder in making the brownies rise

DT

- Developed practical skills in kitchen safety and organization, including proper use of utensils and appliances
- Learned about the importance of following instructions and the consequences of deviating from the recipe
- Gained an understanding of food presentation and aesthetics, such as using decorative icing or toppings

For continued development, encourage the student to experiment with different brownie recipes to enhance their understanding of the scientific and mathematical principles involved in baking. Additionally, the student could explore the cultural and historical aspects of brownies, tying in elements of social studies and language arts.

Book Recommendations

- [The Complete Baking Book for Young Chefs](#) by America's Test Kitchen Kids: An interactive cookbook with recipes and activities that introduce kids to the science of baking
- [Math in the Kitchen](#) by Tracey Steffora: A book that introduces kids to practical applications of math while cooking, including measuring, fractions, and following recipes
- [Science You Can Eat: 20 Activities that Put Food Under the Microscope](#) by Stefan Gates: An exploration of the science of food through fun and educational experiments

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