3D Engineering in the Elementary Schools

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Overview
Math Manipulatives are utilized in classrooms throughout the world. They are heavily used particularly in the elementary school classroom. They are a great visual tool that helps children’s skills develop. Oftentimes they are fun and bright colored which helps engage the students in the lesson. I designed a math manipulative to help teach students a variety of lessons based in money.

Methodology
Based on my extensive research, I designed a math manipulative that would work great for students. I chose various colors for the manipulatives that would engage students.

Further Reading


Results
Students were taught three different lessons using the math manipulatives. All lessons were based on money: adding and subtracting money, place values, and exchanging currencies. We observed and recorded how students utilized the math manipulatives to answer various questions about the lessons.

From the five presented problems, we recorded those correctly answered. We analyzed their work, our videos, and our observations to understand how the students used the math manipulatives to solve the problems. There were 16 students on day one, 18 on day two, and 20 on day three. Two students were identified as gifted and talented. Two other students showed indications of being gifted and talented, but they had not yet been identified as so.