

Get ready to bring math to life! This year, our class is embarking on an epic year-long adventure where students become lead designers of their very own **Theme Park**. This Project-Based Learning (PBL) experience is designed to foster a genuine love for learning by showing students exactly how math functions in the real world. Instead of traditional lectures, students will have "voice and choice" to design a park based on their own hobbies—whether it's a sports park, a water park, or an amusement park—and will work to create five rides and two restaurants or gift shops. By the end of the year, students will showcase their creativity through 3D models, drawings, or digital designs at a spectacular "Grand Opening" for family and friends. Throughout this journey, we will seamlessly integrate every core 6th-grade math standard into the park's development:

- **Geometry:** Students will calculate the **area, perimeter, and volume** of their park's footprint, ride foundations, and gift shop buildings.
- **Ratios and Proportions:** We will use these to determine **admission fees** and create accurate **scale models** of their dream designs.
- **The Number System:** This is essential for **budgeting**, managing "employee" salaries, and calculating profits from restaurant sales.
- **Expressions and Equations:** Students will write equations to predict **visitor attendance** and determine the capacity needed for their most popular rides.
- **Statistics and Probability:** We will analyze data to improve the park and calculate the **mathematical odds** for various carnival games.

This project is about more than just numbers; it's about building **critical thinking, collaboration, and communication skills** that will serve your child for a lifetime. We look forward to seeing their imaginations take flight as they discover that they aren't just students—they are innovators!