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## **I. Introduction**

### **Preface**

Get ready for a thrilling ride of adventure in your classes as we explore the underpinnings of roller coasters. This unit will provide a real-world application of how you use math, science, and language arts skills to deepen your understanding of how things operate in the real world.

You are given the task to design the ultimate ride for the Cass Rivers Amusement Park. The park needs to increase its attendance or it will go bankrupt. It needs a ride that will attract students like you, therefore, increasing profits.

Continue reading for a complete description of your task.

### **Requirements of the Project**

You will work in a group to complete the following components of your project. Each of you will be assigned a specific job. It is your responsibility to complete the task for that job, making sure it supports the other job roles. Each group must produce a presentation to deliver to a committee from the Cass Rivers Amusement Park. The presentation must include the following:

- Blueprint of the design
- Artistic rendition of the ride and model (Model strictly for students with A's)
- Research that will persuade the committee to purchase your design
- Technical report highlighting the specific aspects of the ride

