

Roller Coaster Challenge

Subject: Science, Math

Grade Level: 3-5

Concept: Economic Concepts

Method: Experiential Learning

OVERVIEW

Students have been asked by the CEO to submit a proposal to create the next great rollercoaster at Scream-o-rama. As the lead engineer, you will need to figure out how to get guests from point A to point B in the safest and most-thrilling way possible. The first step of this project is to design a prototype of your roller coaster to present to the board members. Each hill, twist, turn, and loop will impress the board and increase the likelihood that you will get the bid to build the final rollercoaster at Scream-orama. But take note, you will have to remain under budget to win the bid. A suggested budget for this project is 1 million dollars. Students will need remain under budget to avoid being placed in the second tier scoring. All teams that remain under budget will rank higher than a team that scores higher but goes over the budget. Materials suggested (Teacher may vary materials and prices): Plumbing insulation tubes cut in half -\$150,000 per tube, Toothpicks -\$100,000 per dozen, Tape -\$50,000 per 3 feet, Scissors -free, Marble – first one free, second one \$50,000.

Connection to Entrepreneurship: Students will need to remain under budget to avoid being placed in the second tier scoring.