

GRADE SHEET FOR ROLLER COASTER PROJECT

- **PHYSICS: 10 CONCEPTS EXPLAINED CORRECTLY** **1000 PTS.**
 - 100 pts per concept **CORRECTLY** explained
 - 25 pts per concept mentioned/defined, but **not** explained
 - Presentation shows a **solid understanding** of the physics
 - Vocab is used to **explain** how the roller coaster works

- **DESIGN SAFETY (SAFE TO RIDE) & WORKS** **1000 PTS.**
 - **Safe** ending (**slows safely** to a stop ($F=ma$)) 600 pts.
 - Works (in 3 tries) and no physic violation: 400 pts.

- **DESIGN CREATIVITY: ORIGINALITY OF DESIGN** **600 PTS.**
 - Creative theme, appearance, and design 300 pts.
 - Engineering complexity of track design: 300 pts.

- **MATHOT'S QUESTIONS CORRECTLY ANSWERED** **400 PTS.**
 - **Each person** will have to answer 1 physics question

- **PRESENTATION IN FRONT OF CLASS**
 - **Reading** of scripts or definitions (up to -500 pts.)

Total Points for Project: **3000 PTS**

- **50 POINTS EXTRA CREDIT** FOR GOING ON THE **FIRST DAY** _____

TYPE OF PROJECT: _____ COASTER'S NAME: _____

Names **Period** **Total Score**
