

# Paper Energy Coasters

Objective: To build a paper rollercoaster and explain the energy involved in the motion it creates.

Teams: Teams may be made of any combination of Mr. Cochran's physics students.  
There may be between 1 and 5 students on a team.

Elements: These are the minimum track elements your coaster must include

A1	Honors
6 sections Straight Track	8 sections Straight Track
3 Turns	4 Turns
1 Funnel	1 Funnel
1 Merge	2 Merges
	1 Loop

All track elements must be numbered.

Paper: Each team member must write an individual paper explaining the Energy and Work involved in each track element. Number each paragraph with the track element that you are explaining. The better your explanation of the physics involved the better your grade. A list of all team members must be included at the end of your paper.

Grading: This assignment is worth a total of 200 points.

40 points	Construction of Coaster
30 points	Creativity in design of Coaster
30 points	Functionality of Coaster
20 points	Format of Paper
80 points	Content of Paper

Due Dates: **Friday 01/08** for all blocks

Site: Check out this site for pictures <http://paperrollercoasters.com/gallery.htm>