













A Tale of Friction

TeachEngineering

Design

Design and construct simple roller coasters that consider the friction present, using a flexible material like foam pipe insulation as the coaster's path and a marble.

Suggested Learning					
Time	3 : 15	Cost	0.00		
PreRequisites					
Requirements					
Skills		Focus	Level	Standard	Points
 Physics					11
 Mathematics					7
 Problem Solving					3
 Accuracy					3
Total Skill Points					24
Knowledge Gain					
Estimate the effect of friction for a spherical body rolling on an incline. Use free-body diagrams to analyze the friction force acting on a body rolling on an incline.					
Resource Link					
https://www.teachengineering.org/lessons/view/ind-1996-friction-force-along-curved-path-ap-calculus					