

Playland Physics Video Commercial: Why are amusement park rides fun? (From a physics perspective)

You will be working in groups of 2 to 4 within your own block.

Your assignment is to shoot a 5 minute or less video advertising **one** ride at Playland. You can make your commercial as inventive and convincing as you can, but you need to somehow integrate explaining the physics of your ride. Some physics concepts to consider are:

- Inertia,
- Change in apparent weight: Increased Apparent Weight and
- Change in apparent weight: Decreased Apparent Weight,
- Conservation of Energy: Potential Energy => Kinetic Energy
- Conservation of Energy: Kinetic Energy => Potential Energy and
- Conservation of Momentum.
- Circular Motion

It will be marked according to the following rubric.

	0	1	2	3	4
Explanation of physics	No physics explanation	Brief mention of physics terminology or concepts. Misunderstandings may be present	Some explanation of physics but gaps in understanding present	Good explanation of physics. Some minor mistakes.	Clear and correct explanation of physics
Integrating physics in video	No physics explanation	Physics explanation was forcefully put in the video	Attempt is made to integrate physics into the message of the commercial	Explanation of physics is well integrated in the message of the commercial	
Commercial message	No message in the commercial	A message is present in the commercial but may be unclear	Commercial conveys a relatively clear message	Message of the commercial is clear and memorable.	
Delivery	Video lacks multimedia presentation (vocals, visuals, theme, etc)	Some variety of visual, audio, and themes are used in the video but may not connect with the commercial's message.	Visual, audio, and themes used in commercial support the commercial's message.		
Video Production:	Terrible/No Effort	Little effort, just not great	Good	Awesome/Original/Great Video Production	
Group participation	Only one person did the work.	All group members are involved.	All members of the group are equally involved. This includes acting, filming, and editing.		

If you chose not to go to playland, you must do the same project but at a children's playground.

If you are taking ANYTHING on the rides (phones, tools, or kitties), you must attach it to yourself in some way such that it will not fly off. North Vancouver School District, Carson Graham Secondary School, and Ms. Li bear no responsibility for lost or damaged equipment, or for the potential maiming of your fellow fun-park attendees due to the failure to properly secure equipment.