

Marrie. XXXXXXX	XXXXX	XXXXXXXXX.	
Period: 6th	Date:	12-12-19	

Course: Science

Grade: 7th Teacher: ms.medina

Portfolio Student Reflection Form

Ty	ype of Work Selected: 10 //ecoaster lab report Topic: 10/ler coaster design
Id	entify the GLOBAL CONTEXT that this work connects most closely to: Scientific and technical
1.	How does this work relate to this Global Context? 900 use science and math
	for the report
2.	What Key Concept(s) were you working on? <u>Creativity</u>
3.	Why did you choose this sample of your work? I Chose it because we get
	to build our own rollercoaster.
4.	What do you like about this selection? Why? i like it because work you're
	allowed to make the ride how you like.
5.	If you were to do this work again, what would you change? Why? i woold change
	the way the rollercoaster looks and the type of marble.
6.	Write a short 4-5 sentence paragraph explaining how this assignment advanced your understanding of the topic and what the IB Learner Profile attribute you exhibited in completing this assignment. (Inquirer, Knowledgeable, Thinker, Communicator, Principled,
	Open-Minded, Reflective, Balanced, Risk-Taker, Caring).
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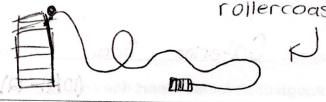
TV: Mass

OV: average speed

Constants : Hrack sizeControl: None

2. amount of tape

Data: 3.1 meter hill



	ROLLER COASTER TRACK RATING					
SAFETY Did marble stay on track? (Y/N)	NUMBER OF TURNS	NUMBER OF HILLS	NUMBER OF LOOPS	ORIGINALITY Scale 1-5		
Yes				\$5		

Mass of small marble: Height of highest hill

Mass of large marble: 7.1

ROLLER COASTER AVERAGE SPEED (small marble)			ROLLER COASTER AVERAGE SPEED (large marble)				
RUN NUMBER	TRACK LENGTH (meters)	TIME (seconds)	AVERAGE SPEED (m/s)	RUN NUMBER	TRACK LENGTH (meters)	TIME (seconds)	AVERAGE SPEED (m/s)
Run #1	3.66	5.55	0.60	Run #1	3.66	2.50	1.46
Run #2	3.66	3.15	1.16	Run #2	3.66	2.03	1.80
Run #3	3.66	2.81	1.30	Run #3	3.66	1.77	2.06
Run #4	3.66	2.83	1.29	Run #4	3.66	2.36	1.55
MEAN Grandy Grand	3.66	3.585	1.02	MEAN	3.66	2.165	1.69

Graph: Graph the mean average speed of both balls

Results: Write answers in complete sentences (paragraph form)

What effect did the heavier car (large marble) have on the ride time speed 2. Describe the energy transformations that took place in your roller coaster.

3. Waw your roller coaster track in the box below. Label PE and KE energy transformations on the rollercoaster track.

had a high total incline in the The track After there was a woop and a curve

4. What principles related to PE and KE did you apply in designing your rollercoaster?

'S.' What is the potential energy of the highest hill? Show calculations

(salculate the kinetic energy of the small and large marble. Show calculations

√Conclusion: C-E-R (2 paragraphs minimum)

Claim: a statement that answers the purpose or problem being investigated (has to have

Evidence: (explain how the data supports the claim)

mass and avera

Reasoning, Part 1 (Why the evidence supports the claim):

Reasoning, Part 2 (explain the underlying scientific concept that supports the claim):

(mass, average speed, kinetic and potential energy, momentum, law hist-inaccepisterior height in meters (3.4) (1 meter) (g=gravity

MM = mass