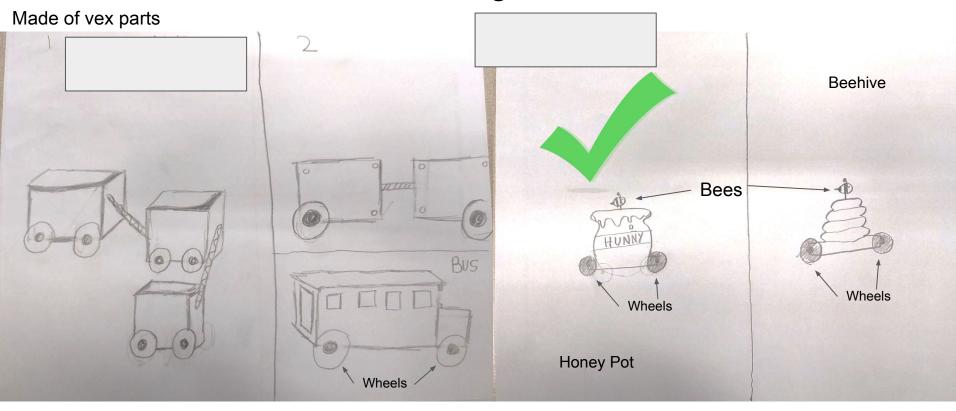
Assignment #3 Pull Toy Challenge

Design Brief

P	ull Toy Desig	gn Brief Template		
Clie	ent	John B.		
Tar	get Consumer	children	Ages: 2 - 8	
Des	signer(s)			
Pro	blem Statement			
Kids ar models Des	tify the design problem e SHTING ar ilike pull ign Statement	or opportunity and create a brief ound without of toys.	of statement to summarize it. enjoying physical	
Crea	ate a statement that brid	efly describes the optimal design	n idea that can address the problem Idrens Pull toy the nd practical.	9
Crite Ime (Ident Jue March C			em or opportunity. No+ too heavy or big forghtid to carry	
5	Summarize your wo		description of the Design Process. sss. Include documentation (written your design.	

Brainstorming Sketches



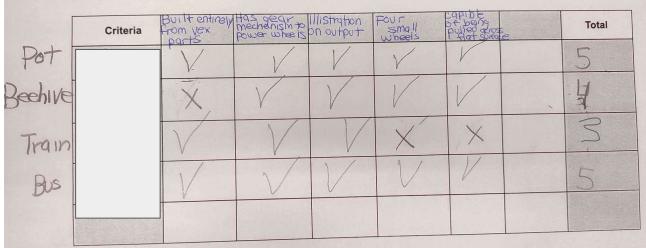
Inspirational Quote (theme for the toy)

Sometimes the smallest things take up the most room in your heart. - Winnie the Pooh

Parade. "Happy Winnie the Pooh Day! 50 Best 'Pooh' Quotes Guaranteed to Brighten Your Day." Parade, Parade: Entertainment, Recipes, Health, Life, Holidays, 6 May 2021, https://parade.com/935628/parade/winnie-the-pooh-quotes/.

Decision Matrix

Decision Matrix Template - Pull Toy



Scale from 1 (Worst) - 4 (Best)

We chose the honey pot because it met all the requirements and related more to Winnie The Pooh than the bus.

Materials list

roup Member's Names: 4	
aterials Person:	
oject: DUII +OV	
oject. Political	

Materials List for Robotics (use the following links to get names of parts - we do not have all of these and you may need to substitute. You can also look on the wall in the back.)

 $\label{locality} $$ $$ https://docs.google.com/presentation/d/1- f1lqw7Qbc3IOFfg96I3cXMghyYl_U0WV-n4JZ1Yuo/edit?usp=sharing $$ $$ $$ $$ $$$

Part name	How many?	Received Initials	Returned Initials
Screws	6		
Screws	780		
Sprocket	2		
Wheels	4		
Drop off Cam	1		
Chain link	1		
Flat bar	2		
C-Channel	4		
Drive Shaft	3		
+Bearings	5		
Kep nuts	20		

Design Process Solution (process used to create the pull toy.)

Our process: First we made drawings of what we thought the pull toy could look like. Once we decided on the honey pot, we looked up pictures of PLTW pull toys to understand how the mechanism could work. Then we created the base for our pull toy to be built off of. While creating the base we decided we needed bigger wheels so we got them. We also decided not to make a full pot because it would have made the toy too heavy.

Next we created the mechanism to make the pull toy unique. It took a lot of experimentation to get the mechanism to work correctly. We decided to just use the rising bee gear instead of adding another mechanism since our pull toy was not suited to hold any others.

After that we printed out some pictures that we could attach to the pull toy to make it look better. Later we went in the hall to test it out. It worked so we took videos and finished up the sheets in our folder.



Rubric

Advanced Exceeding Standards	Criteria Standards for this Project	Concern Areas that need work
We did all of this and put it neetly in our slideshoo	Design brief is completed and includes all required information, including client, designer, problem statement, design statement, constraints and deliverables.	
	The project includes a detailed step-by-step description of the design process.	
	Research is documented With appropriate citations. Research shows a variety of resources and has more tha two sources.	
	Three sketches are complete and annotated to show all important information. Heading information is complete and accurate. All designs are unique and completed in pencil.	
We filled to the chart in stifled the discision.	Decision Making Matrix complete with all criteria listed and each member's drawing was evaluated. The student can effective justify the final decision.	aly
Midterials	The final-product-exactly matches the final design. Drawing with materials li	
	Students test and evalue	nte

Toup Wembers.	Day	Day,	
	Their prototype, make Modifications if necessary, And thoroughly document changes		
	The student consistently listens to all team members, respects varying opinions, communicates ideas and opinions effectively, and engages in compromise. Student completes their portion of the project on time.		
85-100	75-85	50-75	

ame:

Grade:

Citations

https://www.pinterest.com/pin/638737159635701298/-Video of bumble bee pull toy with similar gear system as ours

http://clantonmiddle.al.ccm.schoolinsites.com/?PageName=LatestNews&Section=Highlights&ItemID=269090&ISrc=School&Itype=Highlights&SchoolID=6372-Pictures of pull toys with our gear