Grade 4-6 & 7/8 LEGO MECHANICS FERRIS WHEEL CHALLENGE

SKILLS ONTARIO COMPETITION 2021

School:		
Judge:	Grade:	4-6 7/8
Names of Participants:		
1)	2)	
3)	4)	
DESIGN PROCESS:		
CRITERIA		Points
Evidence of brainstorming and design process (numerous solutions considered, best ideas identified and combined)		/3
Justification of choices (best ideas are justified to solve problem)		/3
Quality of blueprint/sketches (blueprints/sketches show both technical skill and technical clarity)		/3
Labeled with appropriate use of technica mostly appropriate for task)	ll language (technical language is	/3
Criteria for success (design criteria are qualified for performance)		/3
		OVERALL:
SAFETY:		
Safe use and operation		/5
Awareness of safety (fingers, hair and cl	othing near moving parts)	/5
		OVERALL:
TEAMWORK:		
Design Process (all team members contribute to design plan) – while this one will be difficult for us to assess virtually this can be shown during the presentation video with all members contributing		/5
Commitment to the plan (whole team fer proposed design plan)	els comfortable and is working with	/5

Have fun and get creative. The more unique the design, the more points you will get.	/10
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get.	/10
get.	/10
\mathbf{OVE}	RALL:
TESTING:	- W 1224
Criteria	Points
Control of functions and device (operations work the way intended)	/10
Form follows function (supports intended purpose)	/5
Ferris Wheel is 40cm in diameter (<i>Please measure in your video with a measuring tape so that judges can see</i>)	/5
Ferris Wheel has 6 passenger Cars	/5
Accuracy of completion of task (task is complete within time frame)	/5
Ergonomics (device and mechanisms are easy to use and control) & Aesthetic and quality of completion (appearance is mostly clean and pleasing)	/5
Effective use of power, speed, gears, pulleys and levers.	/10
Economic and creative use of materials (materials are used appropriate to need)	/5
OVE	RALL:

As the rules state, there are no ties. If the score is even after the contest, the conformance to design components will be used as the tie breaker