

2018 Manitoba Robot Games Competitions

Type	Code	Control	Upper Age limit	Max Robot Size	Max Weight	Field Dim	Other Conditions
Prairie Sumo	PST	Tethered	Grade 12	1m Perimeter	3 Kg	1.52 m dia	Radio Controll or Cat5 & motor controller.
Prairie Sumo	PSA	Autonomous	University 1	1m Perimeter	3 Kg	1.52 m dia	5 sec startup delay.
Mini Sumo	MSR	Tethered	Rookie	MRG Sumo Kit	500 gr	0.77 m dia	Must use Manitoba Robot Games Kit
Mini Sumo	MS1	Tethered	Grade 6	No Size Limit	500 gr	0.77 m dia	Must be able to push 500 gr block
Mini Sumo	MS2	Tethered	Grade 9	No Size Limit	500 gr	0.77 m dia	Must be able to push 500 gr block
Mini Sumo	MS3	Tethered	Grade 12	No Size Limit	500 gr	0.77 m dia	Must be able to push 500 gr block
Mini Sumo	MSA	Autonomous	University 1	No Size Limit	500 gr	0.77 m dia	5 sec startup delay.
Tractor Pull	TPM	On/Off	Grade 12	10" x 14"	12 Lbs	24 ft long	Tracks or wheels but elastomer only
Line Follower	LFA	Autonomous	Grade 12	20 cm wide	None	4 x 4' sq. ea.	4 levels of difficulty. OK to use Lego
Super Scramble	SSA	Tethered	Grade 12	20 cm wide	< 750 gr	2' x 16'	Accept and deliver 1" steel ball, end to end.
Super Scramble	SSB	Tethered	Grade 12	20 cm wide 1m Perimeter	> 750 gr < 3 Kg	2' x 26'	Accept and deposit 1" steel ball, at the end.
Judges Choice	JC1	Autonomous	Grade 12	35" W, 72" H	50 Lb/Axle	None	Must perform a stated function safely.
Robo-Critter	RC1	Tethered	Grade 6	6" x 12"	None	4' x 8'	RC Kit available from MRG
Lego (NXT & EV3)	NXT	Autonomous	Grade 12	Predetermined by using Lego NXT or EV3		4' x 4'	Levels of difficulty challenging the builder to program the robot to utilize different sensors and outputs.