STEM Wars 2025 Grade School Competition Criteria – Please contact Shannon Sauder at ssauder@swcsk12.0rg with questions.

Please note: Each school may bring a maximum of 20 students. Your team will move through a variety of competitions. We try our best to ensure that your whole team can move together. Each competition criteria will list the time allotted for this activity and the number of participants. Not all students on your team will compete in ALL areas. Some competition areas are made ahead of STEM Wars and will be brought with you to the competition (noted in blue below.) When not competing, check out other exhibits maker faire, presenters, science posters, career/tech fair. Schedules posted after the registration closing date of: Friday, April 11, 2025

Competition Area	Participants	Time	Made Ahead/ Description
Marble Run	2-4 (You can have	10 min.	Students will be given a box of materials, the goal is to build a marble run of a given length (start tape/end tape) with only the material given.
	3 separate teams)		First team in the heat to finish wins.
	ccae,		Examples of materials to practice with- cardboard, tubes, tin foil, blocks, popsicle sticks, paper.
Robotics	4-6	15 min.	Students will be using Dash robots and iPads, using the Blockly platform in Wonder. These will be provided, as well as the competition mats.
	(You can have		
	2 separate		The challenge could consist of ANY of the three components:
	teams)		1. Speed- First finished
			Accuracy- most accurately hitting the coordinates
			Fewest lines of code to complete the task
Catapult	4 max	10 min.	BUILD AHEAD AND BRING WITH YOU
			Catapults are built ahead of the competition and brought with. The only materials to be
	(You can have		used are:
	3 separate		One standard plastic spoon
	teams of 4)		Standard sized popsicle sticks Standard sized popsicle sticks
			3. Elmers white school glue
			4. Rubber bands
			Students will have an accuracy challenge and will try to get pennies into a bucket.
			Teams with the most pennies hitting the target win.
Science Poster	Unlimited-	Due Day	MAKE AHEAD AND BRING WITH YOU
	One poster per	of	Science Poster Criteria-
	school		Problem: Chautauqua Lake has harmful algae blooms
			Create an informational poster that informs the public ways they can help reduce algae blooms in the lake.
			Lable with index card on the back- school name/participants
			Judged by Chautauqua Lake Association
Maker Faire	Unlimited-	Due Day	MAKE AHEAD AND BRING WITH YOU
	3 Entries per	of	
	school		If you are passionate about making this is for you let your creativity run free- open ended no constraints- digital or physical entries accepted.
Hack-a-thon	4-6	Entire Day	This small team will work in the hack-a-thon designated space for the duration of the
			<u>competition</u> , in the morning they work a solution to a problem and create a prototype.
	(1 team- for		In the afternoon they will present their solutions.
	the day)		
			This will be digital design work- think websites, apps, posters, bannersthe over arching
			topic will be cyber bullying the specific problem will be given to the hackers at the
T shirt Design	One design nor	Duo Day	COMPETITION.
T-shirt Design	One design per school	Due Day of	MAKE AHEAD AND WEAR- MAKE AHEAD AND BRING WITH YOU Design your own team shirt
	301001	OI .	Your design should include:
			-Your school name or mascot
			-An aspect of this theme: (Creativity is intelligence having fun." (Einstein)
			*Please bring one extra shirt for display and judging
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