

Here are some of the stations that we had during Math Exploration at my school. I suggest starting with some of the activities in your own classroom first before doing it as a school-wide event.

Station	Activities	Resources
1	Explore Platonic Solids	https://www.polydron.co.uk/polydron-frameworks/polydron-frameworks-platonic-solids-set.html
2	Mobius Strip	http://www.physics.wisc.edu/museum/Exhibits/Mechanics/Mobius%20Strip/Mobius%20Strip%20Activity-2%20pages.pdf
3	Pentominoes	https://www.amazon.com/Learning-Resources-Rainbow-Premier-Pentominoes/dp/B000WA3FKU/ref=pd_jpo_vtph_21_bs_1_12_encoding=UTF8&pvc=1&refRID=NFEGSXQ0DKWKKDYC5R40
4	Tower of Hanoi	https://www.amazon.com/Professor-Puzzle-GRM2231-Tower-Hanoi/dp/B073FRM442/ref=sr_1_10?keywords=tower+of+hanoi&qid=1554525843&s=toys-and-games&sr=1-10
5	Bank shot	
6	The fold and cut theorem	https://amealbrecht.com/2016/05/24/fold-and-cut/ http://erikdemaine.org/foldcut
7	The rectangle and the square	www.youtube.com/watch?v=f4oe9YL0Zeg
8	Fractals	https://fractalfoundation.org/resources/what-are-fractals/ https://fractalfoundation.org/resources/fractivities/
9	Pentablocks	https://www.hand2mind.com/item/pentablocks-set-of-245/6244
10	Build Sierpinski Tetrahedrons with Zom	https://docs.google.com/document/d/1WmATiySoJ-iBhdgQxi48lNkMPstXgZ419CV4JgVTA/edit
11	Two point perspective drawing	https://www.instructables.com/id/How-to-Make-a-Two-Point-Perspective-Drawing/
12	Golden Ratio/Golden Angle	https://www.instructables.com/id/Blooming-Zeetrope-Sculptures/ https://www.mathsisfun.com/numbers/nature-golden-ratio-fibonacci.html
13	The Monty Hall Problem	https://betterexplained.com/articles/understanding-the-monty-hall-problem/
14	Math Game - relay race	https://vimeo.com/217774198
15	Construct Polyhedrons with Polydrons	https://www.polydron.co.uk/polydron-frameworks.html
16	Math in Origami	https://www.ics.uci.edu/~epstein/junkyard/origami.html https://noniusadventures.com/2018/11/07/origami-or-folding-paper/
17	String Art	https://minimathprojects.com/
18	Tangrams	https://www.amazon.com/ETA-hand2mind-Plastic-Tangrams-Manipulative/dp/B01D9KHU1E/ref=sr_1_1_sspa?crid=WQQYV0PR2KY8&keywords=tangrams+puzzles&qid=1554526723&s=toys-and-games&sprex=tangrams%2Ctoys-and-games%2C177&sr=1-1-spons&pvc=1
19	4 Way Countdown	https://www.amazon.com/Ideal-OC241-4-Way-Count-Down-Game/dp/B000229N2C/ref=sr_1_1?crid=16AF31700KZM4&keywords=4+way+countdown+game&qid=1554526697&s=toys-and-games&sprex=4+way+%2Ctoys-and-games%2C180&sr=1-1
20	Mathable	https://www.amazon.com/Family-Games-Mathable-Deluxe-Board/dp/B07JBQKT5Q/ref=sr_1_3?keywords=mathable&qid=1554526663&s=toys-and-games&sr=1-3
21	Soma Cubes	https://www.amazon.com/Cube-Puzzle-Wooden-Handmade-SiamMandalay/dp/B01FQX9KQ0/ref=sr_1_8?crid=G6AF8E1MTQNG&keywords=soma+cube+puzzles&qid=1554526637&s=toys-and-games&sprex=soma+cube%2Ctoys-and-games%2C179&sr=1-8
22	3D 4 in a Row	https://www.amazon.com/EAI-Education-3D-Four-Row/dp/B01G9EYFJ2/ref=sr_1_4?keywords=3d+4+in+a+row&qid=1554526551&s=toys-and-games&sr=1-4
23	Dominoes	https://www.amazon.com/Kangaroos-Double-Dominoes-Domino-Closure/dp/B010E2FOZE/ref=sr_1_2_sspa?keywords=dominoes&qid=1554526404&s=toys-and-games&sr=1-2-spons&pvc=1
24	Cool Circuits	https://www.amazon.com/ScienceWiz-Cool-Circuits-Puzzle-Game/dp/B000OT280W/ref=sr_1_1?crid=YD3P2YYM5MBL&keywords=cool+circuits&qid=1554526355&s=toys-and-games&sprex=cool+cir%2Ctoys-and-games%2C181&sr=1-1
25	Fifteen Puzzle	https://www.amazon.com/Number-Slide-Puzzle-Pack-6/dp/B00KYLXSY/ref=sr_1_4?crid=2QEDT53RHWUS&keywords=fifteen+puzzle&qid=1554526326&s=toys-and-games&sprex=fifteen+puzzle%2Ctoys-and-games%2C185&sr=1-4
26	3-d shapes with a single string	https://bh61nm2gr3mkdgk1dtaov18-wpengine.netdna-ssl.com/wp-content/uploads/2017/07/6-8-WIM-3-Building-Shapes.pdf
		http://gofiguremath.org/ http://makingmathvisible.com/
27	Other	https://www.globalmathproject.org/learn/