



## 2023 Duke Energy Science Nights Activity Materials with Description (Quantities for 200 participants)

Activity Name	Item Description	Quantity	Notes
Air Power	Airzooka (Air Vortex Cannon)	1	Purchase or make your own
	Cups	6	To knock over with the air
Binary Bangles	Black Pony Beads, 6x9mm (4mm hole)	1000	Approximately 5 per person
	White Pony Beads, 6x9mm (4mm hole)	1000	Approximately 5 per person
	Plastic Containers	4	To hold the beads
	Pipe Cleaners, 4mm x 12"	200	Need 1 per person
Catapults	Jumbo craft sticks, 5/8" x 6"	400	Need 2 per person
	Regular craft sticks, 3/8" x 4.5"	1000	Need 5 per person
	Plastic spoons	200	Need 1 per person
	Rubber bands, #33 1/8" x 3.5"	800	Need 4 per person
	Small poms (e.g., 1/2" diameter)	200	Need 1 per person
Climbing Robot	Templates (2 per sheet)	100 copies	Online resources
	Straws, 0.25" x 7.5", unwrapped	32	Need 1 1"-long piece per person
	Yarn, medium weight (4-5mm)	134 yd.	Need 1 2 ft.-long piece per person
	Crayons	24	Exact number not critical
	Masking Tape, 3/4" wide	1,200 in.	Need 4 1.5"-long pieces per person
Computer Vision	Computer(s) with webcam	1-2	Internet access, additional items as per the guide
Gas-Powered Rocket	Plastic Film Canisters	6	With lids, for science experiments
	Effervescent Antacid Tablets	200	Approx 1 per person (Citric acid+Sodium bicarb)
	Pie Tins, 9-in diameter	3	To serve as launch pads and catch water
I Spy Microscope	USB Digital Microscope with LED lights	1	e.g., 40x-1000x, additional items as per the guide
Magnetic Racers	Toy Cars with moving wheels	6	e.g., 2.75"-long "Matchbox style"
	North-South Bar Magnets	12	e.g., 1.5" x 0.45" x 0.3"
	Masking Tape, 3/4" wide	1 roll	To tape magnets to cars and create racetracks
Marshmallow Towers	Mini Marshmallows, 10-oz. bag	5 bags	Exact number not critical, could use gum drops
	Toothpicks, 800 per box	2 boxes	Exact number not critical
Paper Circuit Robot	Templates (4 per sheet)	50 copies	Online resources
	Aluminum Foil Sheets, 13.39" x 10.75"	12 sheets	Need 3 0.5"-wide x 5"-long strips per person
	LED Diode Lights, 5mm	200	Need 1 per person
	CR2032 Lithium Button Batteries	20	Do not need 1 per person if not to take away
	Clear Tape, 3/4" wide	1,000 in.	Need 5 1"-long pieces per person
Reading Trees	Tree Ring Poster	1 copy	Online resources
	Tree cookies/ rounds/ wood slices that look like cross sections of trees	3	e.g., 0.4" thick x 4" diameter
	Hand Magnifying lenses	3	e.g., 6X reading magnifiers
	Paper plates, 6" diameter	200	Need 1 per person
	Markers	24	Exact number not critical