This summer, I spent time working with the National Museum of Mathematics (MoMath) in New York City as the pandemic reshaped their operations. The museum, which prides itself on being an interactive, hands-on learning environment for thinkers of all ages and mathematical experiences, had to redesign programming and strategy as students were stuck at home across the nation, expanding our reach, but in formats where deep, personal engagement presented challenges. Working with educators, mathematicians, and technologists, we were able to plan and execute a variety of valuable events that brought together longtime fans of the museum and new joiners.