

## STEM Odyssey Exhibits

Inspire kids' love of math with CuriOdyssey's newest exhibition, STEM Odyssey, an amazing math art experience for kids!

### **Catenary Grove**

Experience the beauty of catenary curves through draping chains and structured arches. Mathematical concept: catenary curves.

### **Math Art Cinema**

Relax and watch entertaining math themed short films in our pop-up theater. Mathematical concepts: shapes, lines and dots.

### **Keystone Arches**

Discover a fundamental principle used in construction for centuries. Building a self-supporting structure with large, wedge-shaped foam blocks. Mathematical concept: Voissior Arch Principle.

### **Puzzle Cubes**

Engineer a structure with colorful, cubic clusters. Mathematical concept: SOMA cube

### **Probability Machine**

Watch a normal distribution pattern (bell curve) take shape in this exhibit where math and physics collide. Mathematical concept: normal distribution.

### **Puzzle It Out**

Play S.T.E.M. games and solve intriguing, interactive puzzles! Mathematical concept: spatial reasoning

### **Everbrite**

Designed by Hero Design. Observe the dynamic animations and then create your own design by twisting the individual dials on an interactive canvas. Scientific phenomena: light, color.

### **Geometron**

Designed by John Edmark. Arrange colorful shapes to cover a virtual polyhedron with symmetrical designs. Mathematical concept: shapes, reflected symmetry

### **Bloom**

Designed by John Edmark. Control the mesmerizing motion of a blossom-like sculpture as it spins under a strobe light. Mathematical Concept: Fibonacci spirals

### **Polyhedra**

Designed by Stacy Speyer. Rotate large geometric sculptures to see symmetries and shapes within shapes. Mathematical concepts: Three-dimensional geometry, symmetrical shapes

### **Shape Cubes**

Designed by Mary Elizabeth Yarbrough. Investigate a triangular twisted tunnel carved through a huge wooden block or crawl into a tilted elliptical tunnel as layers of 2D shapes form 3D structures. Mathematical concepts: two-dimensional shapes, three-dimensional geometry

### **Geometry on a Roll**

Designed by Richard Falkard. Roll golf balls against geometric curves to sink a hole-in-one. Mathematical concepts: curves from cones, focal points

**Hyperboloid:** Twist colorful columns of thread to show the geometrical structure of a hyperboloid. Mathematical concept: lines, curves, geometric volumes

### **Large scale Floor Maze**

Navigate a route on a “No Left Turn” maze, walking in lots of “rectangular circles.” Mathematical concepts: problem-solving, foresight

**and more....**

Mathematics define the beauty of the world at STEM Odyssey! Math art—it is so much more than arithmetic.