



Scavenger Hunt

All of these questions can be investigated by using Math Midway exhibits. There are many right answers. Ask your teacher or museum staff for help if you need it!

Roller Graphicoaster: Which track design results in the fastest time?

Ring of Fire: Name the shapes you can see by holding the tetrahedron (the pyramid shape), the cube, and the dodecahedron (the shape with 12 pentagon faces) in the Ring of Fire.

Three Ring Circleous: Can you predict what shape is spinning before you hit the button to stop the rotation?

Mysterious Harmonograph: Make a drawing at the same time as another person, using the two pen slots at opposite ends of the pendulum. How do your two drawings compare?

Universal Wheel of Chance: Spin the wheel at least 10 times. How many even numbers did you get? Is that what you expected?

Pirate X and Lady Y: Make a balanced setup using one unknown weight and at least 2 coins. Describe the positions of each of the weights and explain why it balances.

Magician and the Moon: Describe how you can get the five disks to cover the white circle.

Mirror Morph: Describe how each mirror distorts your reflection.

Coffee Cup Curves: What shape is made when you match the mirror to the lines on the table?

Funny Face: Describe how the different transformations distort your image.

Pedal on the Petals: Why do you think the ride on the square wheels is smooth?

Number Line Tightrope: Pick a number with at least 3 tags. Describe why the number you picked fits into each of its number families.

Organ Function Grinder: Which input and functions yield an output of 403?

Mathematical Monkey Mat: Can you find a spot on the mat where exactly three monkeys touch? What about six monkeys? Two monkeys?

Polyhedral Puzzle Plaza: Assemble the seven large cushion shapes into a cube. Is there any shape that's completely hidden inside the cube?

Miles of Tiles: Make a tiling of just monkeys without having any two monkeys of the same color touch each other. What strategy can you use to make sure the same colors don't touch?

A-Maze-ing Math: What is the secret to being able to solve the maze?

Plant the Daisy: Describe how the daisy behaves if you hold it on the red tape versus another place on the stem.

Math Unleashed: Which posts do you remove to let the puppy run free?

Traveling Carnival: Try to plan the shortest route to visit all the posts and return to the one you started with. Are there two cities in the route that you can swap to shorten the total distance?

Amazing Acrobats: Once you've completed the sculpture, pick an acrobat. Follow his front arm to another acrobat. Continue in this fashion. How many acrobats do you count before you return to the original acrobat?