

Exhibit areas

You can also find this guide on our website,
www.explora.us



Engineering Gravity

Experiment with balls and ramps to slow down the effects of gravity. How can you use friction, slope, and momentum to send a marble down a ramp on a pegboard wall?

KneeHiSci and KneeHiSci Outdoors

Experiments for our youngest visitors.



Moving Air *Aire en movimiento*

Experiment with air and the things it can do. What happens when you squeeze air? What is the best way to cut a paper cup to help it fly? Is there a relationship between air speed and air pressure?

Math Moves!

Get a feel for proportion – fractions, ratios, similarity, scaling, and percentages. Can you balance weight the same way you balance an equation? Why might a 120-tooth gear (the drawing platform) create a 5-segmented pattern when driven by a 24-tooth gear? What might the pattern be when a 36-tooth gear drives the 120? How do the locations of a weight or of pivot points change the force needed to lift a lever?



Water of Life; Life of Water

Explore water and its unique characteristics. Is water sticky?

Can it flow uphill? What patterns will water make when different objects interrupt its flow?



Taller de artes manuales y artesanías

Arts and Crafts Workshop

Arts and Crafts Workshop

Work with recycled materials for making things. Can you make an object that is physically or visually

balanced? Can you make something that doesn't look like anything else?

Light, Shadow, Color

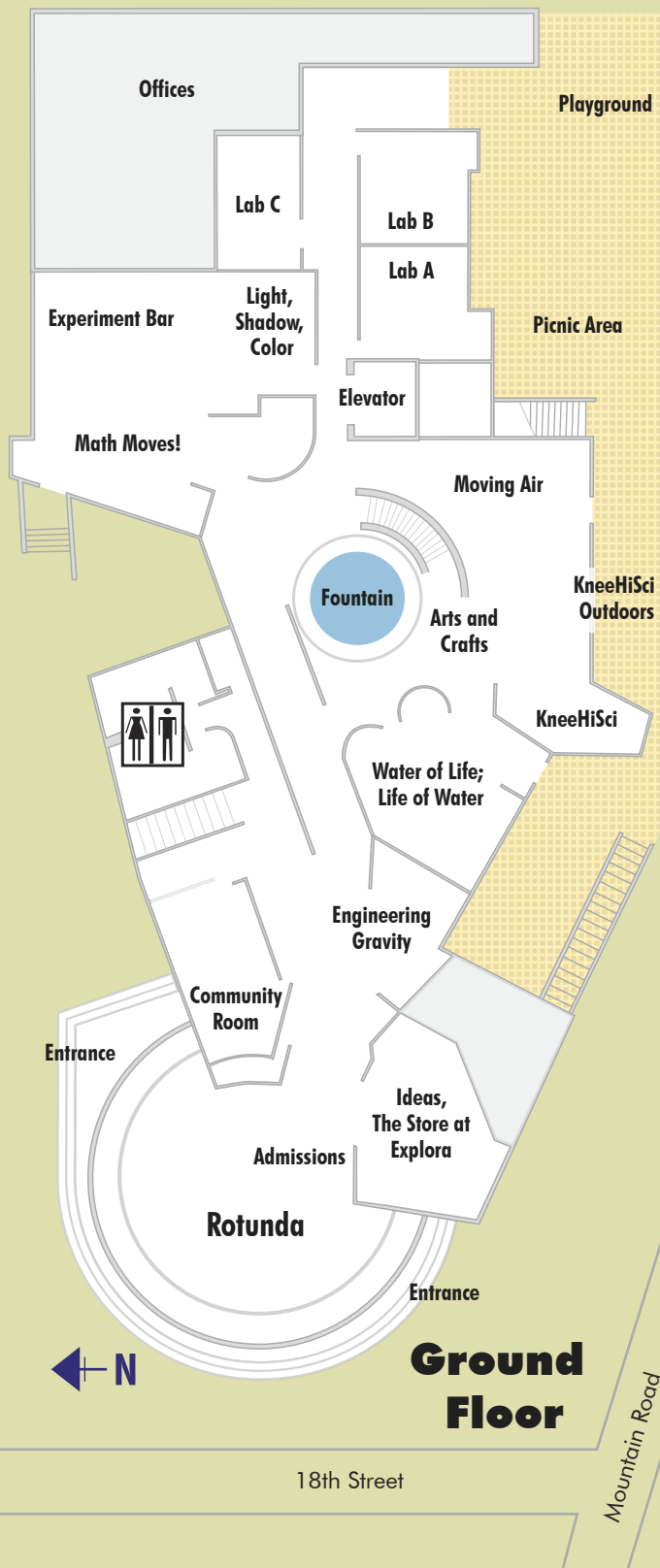
Investigate light. Can you make light bounce? What affects how much light will bend?

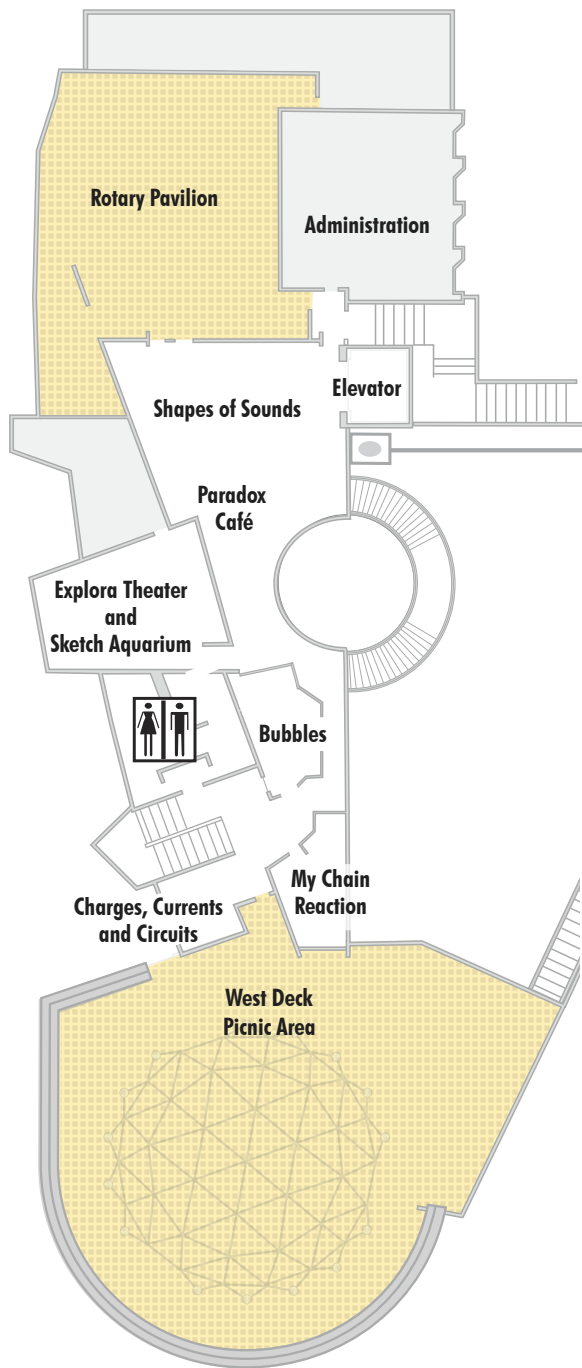
What makes things focused or blurry? What makes a shadow big or small? What produces a yellow shadow? What can an infrared light detector see that your eye cannot?



Experiment Bar

Home of the weekly table top experiments and a place where students can run science fair experiments.





Upper Floor

Paradox Café

Explore your perception.

Are your eyes or your brain telling you the truth? How can our eyes be misled? How do black, white, shades of grey, and shadow affect our brains' interpretations?

Paradox Café

Café de las paradojas

Shapes of Sounds

Discover properties of sound and vibration. What do sounds feel like? What is the difference in the meow of a kitten and the roar of a lion? How does the mass of an object affect the way it vibrates or the sounds that it makes?

Las formas
de los sonidos
Shapes
of Sounds

Rotary Pavilion

Use the materials on hand to investigate the principles of architecture, engineering, and construction.

Sketch Aquarium or Sketch Town

Use your imagination to create something colorful. Then, scan your creation and watch it "come to life" as a projection on the screen.

Curious Bubbles

Investigate the shapes, sizes, colors, and stretchiness of bubbles. What happens when two bubbles meet? How are little bubbles different than big bubbles? Can you make a bubble tower?

Curious
Bubbles
Burbujas
curiosas

My Chain Reaction

Manipulate energy moving through a system. Can you string together a series of objects that react, like dominoes, to cause actions and reactions through multiple components?

(My) Chain Reaction
(Mi) reacción en cadena

Charges, Currents and Circuits

Experiment with electricity. How can you make electricity? What happens to electricity transmitted over a distance? How does a switch work? Can you make a light bulb turn on with only two wires?

Descargas, corrientes, y circuitos
Charges, Currents, and Circuits

¡explora!

Exhibit guide

Welcome!

¡Bienvenidos!



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