The Science Center’s “Exploring Science” exhibit area is designed to provide visitors a way to experience firsthand the principles of natural science through interactive displays. The technique of acquiring knowledge about science through contact and inter-action is a highly approach which represents the trend of the future in broadening education. The museum has brought in 56 displays from the Exploratorium in San Francisco to further strengthen the effectiveness of the exhibition.

Holography

This exhibit features nine large 3-D holographic pictures to present images which are as much art as they are science. We invite you to enjoy the displays by standing in front of each picture and looking in front and back of you, leaning forward and backwards, to your left and to your right. You can also stand tall or bend to the side - change your angle of view as you watch the images. This will help you to appreciate the optic wonders of the laser holographic photography. The themes presented here include “DNA Molecules”, “T-Rex Skull”, “Tarantula”, “Hand and Rope”, “Balloon Blow-Up”, “Shark”, “Turbo Engine”, “Hubble Space Telescope” and “Mir Space Station”.

Sensory Illusions

We all go through various events and experiences as we grow up, and this may cause some of us to misinterpret what we see in certain geometric forms, whether static or in motion. Known as sensory illusions, they are presented in this section in a fantastic blend of science, art and psychology. The exhibition topics include “Distorted Room”, “Circular Deformations”, “Angel Columns”, “Cyber Lumen”, “Recollections”, “Lumen Illusion”, “Magic Wand”, “3-D Shadows”, “Water Sphere Lens” and other tricks of the senses.

Chaos

The “Mass Order” may be a key discipline for leading the development for science in the future. The eight 3-D exhibits on chaos science in this display demonstrate how the collective phenomena of nature are married with art. You may enjoy this display by simply standing in front of an image, taking it in with all your senses. You may also push the control button on the display table to adjust the point of view, speed up or slow down the action and see the phenomenon of mass order. The displays here include “Chaotic Pendulum”, “Aeolian Landscape”, “Pinscreen”, “Tornado”, “Turbulent Orb”, “Cloud Rings”, “Strange Attractor”, “Fluvial Storm”, “Turntable”, “Settling Column”, “Rift Zone” and “Rope Squirt”. 
The fascinating phenomena of physical science include such wonders as “Tesla Coil”, the phenomenon of “Convection Currents” created by difference in densities of cold and heat; the “Bernoulli Levitator” which shows distinctive hydrodynamic characteristics; and the “Wave Cycle” theory emphasized in modern quantum physics with “Balancing Ball”, “No Sound through Empty Space”. Here you will see “Bells”, “Pendulum Table”, “Visible Effects in the Invisible”, “Light Island” and “Spectra”; as well as “Vocal Vowels”, “Eddy Currents”, “Satellite Orbit Simulator”; and finally, “Zero to Sixty”, “Air Reed”, “Oscylindere Scope”, “Hyperbolic Slot”, “Downhill Race”, “Hot Light”, “Three Kinds of Light” and “Blow out Your Toaster”. These are all designed as fascinating inter-active exhibits that visitors will love.

In order to encourage visitors to continue the journey of scientific curiosity throughout their lives, we have included special sections titled “Try this?”, “What’s going on?” and “So what?” in the signboards accompanying each display. These sections help to stimulate visitors’ interest and start them thinking about the contents of the displays and what they mean. The exploring experience should be the start of a lifetime of discovery through experience and observation rather than simply a presentation of what is known in these areas of science. Hopefully we will help to open many eyes to the wonders and beauty of science in the world around us.