



## What is WonderWorks?

### General Description

WonderWorks is an interactive attraction featuring a myriad of hands-on experiences, demonstrations and activities utilizing some of the most sophisticated graphic and audio presentation techniques available. Activities range from a realistic, simulated earthquake to virtual reality. Throughout WonderWorks, your guests will actively participate in some of the most imaginative displays and exhibits found in any facility in the United States.

The most eye-catching feature of WonderWorks is the attraction's dramatic exterior; a three-story tall classically designed building that has landed, upside down, on top of the once famous Music Mansion. At 82-feet tall, WonderWorks will tower over most nearby structures.

### Background

Removed from the glare of the media and the encumbrances of governmental restrictions, a group of scientists from around the world collaborated to find answers to the unexplainable. Their mission: to understand, predict and control these phenomena. In early 2006, during a top-secret experiment, something went awry.

When the scientists attempted to harness the power of a man-made tornado, the giant, swirling vortex adopted a life form of its own, unleashing its power throughout the laboratories! The energy vortex lifted the research facility from its foundations and transported the laboratory hundreds of miles away to Pigeon Forge, Tenn., where it landed, upside-down, but otherwise functionally intact.

### *RISK ZONE*

#### Inversion Tunnel

Experience the sensation of constant, circular motion as you enter WonderWorks.

#### Pulley Seat

Take the challenge at each station and see how much effort is needed to pull you up.

#### Are you a risk taker?

Answer 20 questions about varying risk and then touch the burner to discover your risk factor.

#### What are the Odds?

What are the odds that you will roll a 2 or 12? What are your chances of flipping a coin and it landing on heads? Tails?

#### Global VR

Global VR is a unique type of virtual reality where an input device is used to record and measure electronic signals into a physical world. You will use helmets in this exhibit.

#### Safe Crackers

Try to crack a safe with various combinations of 3, 4, and 5 number combinations.

#### How Tall Are You?

Stand on designated surface and virtual ruler will tell you your accurate height

#### One in a Million

Can you find the one purple bead in a tube filled with a million colored beads?

#### I Can Read Your Mind

Using a questioning method; a computer will attempt to read what object you are thinking about.

#### Anti-Gravity Chamber

Water is traveling from the floor to the ceiling, or is it? At the touch of a special button that guests control, water will appear to change direction! Look up! The change in frequency of the strobe lights is what causes the water to appear to change direction.

## **DISASTER ZONE**

### **Quake Café**

Experience being shaken by the 8.0 simulated WonderWorks Earthquake in the café.

### **Famous Disasters**

Twenty-five feet of computers and monitors present dramatic footage of some of the world's most famous natural disasters. These disasters are explained in basic scientific terms and the students can have the opportunity to quiz themselves about what they've learned!

### **Hurricane Hole**

Students will feel the effects of winds reaching 65 miles per hour. According to the Saffar-Simpson Scale, the hurricane in this simulation is merely a mild one!

### **Titanic Exhibit**

How cold was it really when the Titanic sank? Stick your hand in water and see how long you can keep it there. Built in timer lets you know how much you would have been able to take.

## **CHALLENGE ZONE**

### **Virtual Hoops**

Utilizing the magic of green screen cinema technology, a computer places a guest's image on a basketball court where he/she faces a challenge from a much taller defender. Other's can watch on the "big screen" as visitors attempts to score as many hoops as he/she can.

### **Drag Racer**

Test your reaction time while you sit in a life-size drag race car. Can you beat your opponent?

### **Xtreme 360**

Guests can turn their world upside down on our 360 Bike. The first of its kind in the country! Speed and revolutions depend on pedaling speed as riders experience the ride of their lives.

### **Rock Climbing Wall**

Climb a rock wall with grips at various places.

### **Kidz Place Bike**

Using Virtual Reality, participants can pedal a bicycle which displays a 4-wheeler on the screen. It will test how well they can maneuver while still pedaling to propel the 4-wheeler.

### **Velocity Ball**

Guests will see just how fast they can hurl a ball in the Velocity Tunnel. The best part is you choose a major league baseball player to pitch to. This exhibit introduces the relationships among gravity, speed and distance.

### **Shark Bait**

This exhibit uses the same technology that Virtual Hoops exhibit uses. Only this time the visitor's image is placed inside an ocean habitat where he/she will be face to face with dolphins, "sharks" and other marine animals. Others can watch on the screen as students attempt to score as many points as they can.

### **Mirrorly a Window**

Trace a WonderWorks image while looking through a mirrored image without going out of the lines.

### **True Grip Challenge**

While holding two metal round sensors, test your ability to grip and the machine will tell you where you rank.

### **Strength Challenge**

Could you wrestle a bull? Using two horn shaped metal sensors, similar to the True-Grip, test whether or not you can squeeze the horns together.

### **Kidz Place Snow Jam**

Similar to the Kidz Place Bike, participants can stand on a snowboard and attempt to stay upright while watching their progress on a screen.

### **How High Can You Jump**

Standing flat on your feet, this exhibit allows you to determine how high you can jump. It allows you to experience how high it is to a basketball hoop, and how the NBA players do it.

## **SPACE ZONE**

### **Fog Wall**

A wall of fog gives the impression that you have left where you currently were as you change to the next zone, entering the great beyond.

### **Space Update**

Check star charts from two years ago till the present day. This allows you to see what the sky will look like that same evening.

### **Astronaut Suit**

Explore the life size replicas of the astronaut space suit and Mercury capsule.

### **Coin Orbiter**

The exhibit allows the participant to determine which coin can roll the fastest.

### **Space Weight**

This 'scale' determines weight on Mars, the moon, and Earth.

### **Wonders of Space-3D Movie**

Experience the only 3-D footage of the planet Mars in the country in our **Wonders of Space** 3-D Movie Theater.

### **Falcon One/Eagle One**

Discover the freedom of flight as you soar in the f18 fighter jet across the blue skies or make a landing on the carrier.

### **Space Shuttle Simulators**

Kids of all ages will enjoy being able to maneuver the controls of the space shuttle Discovery. By following NASA instructions, try to make a safe landing under different weather conditions. Find out if you have what it takes to pursue a career in aeronautics!

### **Mercury Capsule**

Experience what it is like to lay inside the Mercury Capsule, designed to be a one-man vehicle.

### **Cosmic Discovery**

By taking the interactive space travel quiz, students will learn fascinating science facts. They can also plan an interstellar trip and compare the travel time between the different vehicles available.

### **Space Info Center**

Four separate stations that test your knowledge of varying space topics ranging from the space shuttle to the Milky Way

### **Robotic Arms**

Using robotic technology with joysticks, you will have a hands-on experience operating the robot arms that have human proportions.

## **SIGHTS AND SOUNDS**

### **Virtual Hockey**

Your hand is the paddle in this game of virtual air hockey

### **Wonder Dome**

The movement of your feet allows you to kick balls, walk on water, and watch flowers bloom right underneath you

### **Sound Labs**

In order to create a realistic simulation of sound, the sound levels and timing cues in this exhibit have been adjusted to mimic real life situations

### **Body Morph**

Using various shaped mirrors, you can push a button and determine how you would look if you were a different size or shape

### **Roaring Lion**

By pushing one of four buttons, you can determine how a lion communicates with various emotions.

### **Shadow Wall**

Through phosphorescence, this exhibit retains your image on a special wall for several minutes. You stand directly in front of the wall and block bright light from reaching it, while the rest of the wall quickly absorbs the light.

### **Wacky Wire**

Take a metal loop around a metal pole with various curves without touching them together. This truly test the steadiness of your hand

<b><u>Virtual Adventure</u></b>	Using blue screen technology, you can land a parachute, play a game of volleyball, or attempt snowboarding while being directed by a screen in front of you
<b><u>Wonder Wall</u></b>	Create a 3-dimensional image of your body with over 40,000 pins in this wall
<b><u>Tic-Tac-Toe</u></b>	Play TIC-TAC-TOE the scientific way! You can test your knowledge of the earth by choosing between five categories: geosphere, biosphere, atmosphere, hydrosphere, and cryosphere
<b><u>Swirling Vortex</u></b>	Stare into a spiral for about 20 seconds. Look at the clouds on the station. They appear to be moving on their own.
<b><u>Simon Says</u></b>	Follow the sequence of lights and remember the pattern in this life size Simon game
<b><u>Carney Mirrors</u></b>	Step in front of one of these mirrors as they turn your body into several different contorted views
<b><u>Floor Piano</u></b>	Play "Mary Had A Little Lamb" with your feet on this giant floor piano
<b><u>Elastic Surgery</u></b>	Transform your face like never before with computerized elastic surgery
<b><u>Aging</u></b>	Take your picture, and then choose any age within 25 years about your current age. The computer will automatically manipulate your image to reflect the age you choose.
<b><u>Personality</u></b>	Explore five different personality styles to find out who you are such. Personalities include expressive, interpersonal, work, emotional, and intellectual
<b><u>Human Race</u></b>	This computer allows you to see yourself at a different ethnicity. The race computer will alter your face to be Asian, Black, Caucasian, Middle Eastern, and even Indian.
<b><u>How Old Are You</u></b>	Take the health survey on the Health/age computers to determine whether your current habits are making you older, or in fact younger
<b><u>Couples</u></b>	Take your photo with your mate on the couple's machine and see what your child will look like when your faces morph together
<b><u>7 Wonders Theatre</u></b>	Discover the natural and manmade "Wonders of the World" in this theatre which explains them all
<b><u>Theme Songs</u></b>	Two separate stations that allow you to choose which decade of TV theme songs that you can listen to and choose the correct answer
<b><u>Bubble Lab</u></b>	Kids of all ages (1-101) love bubbles! This exhibit is just for the fun of it! Put yourself inside a gigantic bubble that you created!
<b><u>Fun 4 Kids</u></b>	Children can color, paint, and learn with these computers that allow them to do things using a touch screen
<b><u>Wonder Sketch</u></b>	This is a larger version of the Etch-A-Sketch from the 80's
<b><u>Wonder Coasters</u></b>	Design the roller coaster you have always wanted to ride! Feel the adrenaline rush of this 360 degree pitch and roll motion virtual ride
<b><u>Bed of Nails</u></b>	Lie down on this Sharp bed made of 3,497 nails
<b><u>Air Cannons</u></b>	Use air cannon by the pull of a string to shoot a ball straight in the air

## **GALLERY**

### **Magic Finger Paint**

Use your finger to draw images on this large screen

### **Talking Faces**

This is an exhibit where it is difficult to determine if it is pottery spinning or two faces talking. Depending on how you stare at it, it will allow you to see one of two things

### **Wire Art**

This wire is placed together to look like a bunch of wire; however, when light is projected on it, it takes on a clear image on the wall behind it

### **Harp**

Play a harp with no visible strings

### **Illusion Restroom**

A functioning restroom that you may have to be brave to use. It uses a special kind of glass that you can see through until the door locks, and then it creates a covering over the glass so that it is safe to use without public viewing