



General Description

WonderWorks is an amusement park for the mind. It features over 100 hands-on, interactive exhibits for visitors of all ages to experience. Our exhibits utilize some of the most sophisticated graphic and audio presentation techniques available. Activities range from a realistic, simulated hurricane to virtual reality. Throughout WonderWorks, your students 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 a 1930s era brick warehouse. 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 scientist from around the world collaborated to find answers to the unexplainable. Their mission: to understand, predict and control these phenomena. In early 1998, 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 unleashed its power throughout the laboratories! The energy vortex lifted the research facility from its foundations and transported the laboratory hundreds of miles away to Orlando, Florida, where it landed, upside-down, but otherwise functionally intact.

Students will experience the following and other unique phenomena for themselves inside the WonderWorks laboratories. In order for the journey to begin guests will step into the Inversion Tunnel to be turned upside-down.

Level 1

Earthquake Café One of history's most renowned earthquakes, the 1989 San Francisco earthquake that stopped baseball's World Series and collapsed a freeway is recreated in the laboratory. Students will feel for themselves what an earthquake that measures 5.3 on the Richter scale actually feels like.

Natural Disasters Touch screen 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 Shack Students will feel the effects of winds reaching 74 miles per hour. According to the Saffar-Simpson Scale, the hurricane in this simulation is merely a mild one!

- Google Earth** Travel the world through a virtual globe and view satellite imagery, terrain and maps in this giant screen version! With the rich geographical content of Google Earth, students will be able to experience a more realistic view of the world.
- Tesla Coil** Become a human lightning rod! See, hear and touch the power of 100,000 volts of electricity as you learn about the invention of physicist and engineer Nikola Tesla.
- Anti-Gravity Chamber** Water is traveling from the floor to the ceiling, or is it? At the touch of a special button that you 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.
- How Cold Is It?** Experience firsthand what the water feels at 28° F, the same temperature that 2,223 people in the RSM Titanic felt when this one sank. Great exhibit to explain the concept of “hypothermia”.
- Time Machine** Learn the most current interesting facts about time as you are able to send your picture postcard to a time in the future!!

Level 2

- Wonder Park** Students will see for themselves just how fast they can hurl a ball in the pitching tunnel. The best part is you choose a major league baseball player to pitch to. Use this exhibit to introduce the relationships among gravity, speed and distance.
- Pull Yourself Up** If simple machines is the unit of study, this exhibit is a terrific demonstration! Students will lift themselves up with the help of pulleys. Three stations with a different amount of pulleys have been set up to demonstrate first-hand “mechanical advantage”. As the challenge is taken at each station, they will feel how much effort is needed to pull themselves up!
- Mind Ball** Students will discover how well they can relax their minds in this bio feedback game based on EEG technology. Players will wear a headband with electrodes and relax their minds in order to use their brain waves and move the ball across the table to the opposing side. The most relaxed player wins!
- Bed of Nails** Is it possible not to be punctured while laying on this bed? The Bed of Nails is a great way to demonstrate students the principle of pressure: "force-per unit area". and for classroom discussions of Newton's Laws of Motion.
- Wonder Wall** Create an instant three-dimensional impression of the entire body in this 8ft. tall pin wall, which consists of over 40,000 plastic pins.

- Speed of Light** Have your students test their reflexes while competing for the highest score. This exhibit is great for classroom discussions about the relationship between human body parts, specifically hand-eye coordination and the nervous system.
- Strike a Pose** Students can actually leave their shadow behind in this unusual experiment. Through phosphorescence, this exhibit retains student's images on a special wall for several minutes. Your students will stand directly in front of the wall and block bright light from reaching it. While the rest of the wall quickly absorbs the light, the area blocked by your student remains dark, even after he/she walks away.
- Giant Piano** Compose music with your feet on this Giant Piano. Students can start by trying "Twinkle Twinkle Little Star" or "Hush Little Baby". Who knows if you have the the next Beethoven in your classroom!
- Scientists Hall** Learn about the discoveries of some of the most influential scientists in history.
- Alien Stomper** Students will love this revolutionary multiplayer interactive game! They will stomp funny aliens and save *WonderWorks* with their feet.
- Wonder Brite** Let your imagination run wild as you create artistic patterns with the giant light sticks! *WonderBrite* is a large scale Lite-Brite wall with hundreds of multi-colored acrylic rods. Children will develop their fine motor and sensory skills while they watch their creation light up!
- Shuttle Landers** 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!
- 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. This space voyage will assist with lessons that involve the relationship between speed and distance.
- Earth Update** Play TIC-TAC-TOE the scientific way! Students will test their earth science knowledge by choosing between 5 categories such as: geosphere, biosphere, atmosphere, hydrosphere and cryosphere.
- Robotic Arms** Robots of today are not exactly the talking; walking amazingly intelligent machines of the movies and stories. Robots can be found working for people in factories, warehouses, laboratories, etc. At *WonderWorks* students will have hands-on experience operating the robot arms that have been built with human proportions Use this exhibit to introduce students to the relationship between science, technology and the society.
- Wonder Coaster** Design the roller coaster you've always wanted to ride with the help of technology. This virtual coaster has the ability to turn 360° in every direction. Hold on to your seats, while experiencing virtual physics!

Astronaut Training Challenge Feel the sensation of weightlessness like in outer space! The gyroscope is a spinning wheel in which the axle is free to assume any orientation. The motions of this gyroscope are directed by the movement and shifting of the rider's bodies and the turning force.

Level 3

Ropes Challenge Course Students will be able to test their endurance and locomotor skills as they encounter over 18 different obstacles and physical activities in this 3 story indoor ropes course. Closed shoes and pants required.

XD 4D Theater The 12-seat theater takes students on an amazing adventure that transcends time, space and imagination by combining the 3D film with special effects and full motion seats.

Lazer Tag WonderWorks houses the largest laser tag arena in Orlando! When you request to participate in *Lazer Tag*, students will have a special interactive experience with their classmates while playing the hide and seek game of the 21st century.

Far Out Art Gallery

The Far Out Art Gallery is spread throughout the stairwells and hallways of WonderWorks. Enter a new dimension of reality and explore the unknown. Discover how perception and perspective are used in over 35 exhibits located throughout this art gallery where the unexplainable will come to life and the unusual will be the norm.

WonderWorks Café

WonderWorks has an in-house pizzeria that is available for you and your students to order at a special rate. Adjacent to the restaurant is a separate banquet room for your convenience. The group will have the ability to eat in one area. This makes supervising simple and worry-free!

WonderWorks Emporium

The WonderWorks gift shop offers a fascinating collection of themed and educational merchandise. Gift items that recapture the attraction's laboratory experience will be found here as well as curious interactive toys, puzzles and many more. Students' groups receive a 10% discount for purchases in the gift shop during their field trip visit.