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 classically designed building that appears to have crash landed upside down on the third level of Destiny USA.

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 2012, 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 Syracuse, New York 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 their journey to begin, they must first step into the <u>Inversion Tunnel</u> to be turned upside-down.

Natural 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 Shack	Students will feel the effects of winds reaching 84 miles per hour. According to the Saffar-Simpson Scale, the hurricane in this simulation is merely a mild one!
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.
Google Earth	Pick a place of interest or even your own home and explore how this technology will allow you to zoom in and see an aerial view of the place you selected.

Velocity Ball	Students will see for themselves just how fast they can hurl a ball in the Wonder Park 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.
Pulley Power	If simple machines are 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!
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 to students the principle of pressure: "*force-per unit area",* and for classroom discussions of Newton's Laws of Motion.
Far Out Art Gallery	Enter a new dimension of reality and explore the unknown. Discover how perception and perspective are used in this art gallery where the unexplainable will come to life and the unusual will be the norm.
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!
Alien Stomp	Preschoolers and primary level students will love to battle aliens, stomp the invaders and save W*onderWorks* with their feet during this multiplayer interactive game.
Robotic Arms	*R*obots of today are not exactly the talking, walking, or amazingly intelligent machines of the movies and stories. Robots can be found working for people in factories, warehouses and laboratories. At *WonderWorks* students will have hands-on experience operating our robot arms that have been built with human proportions. Use this exhibit to introduce students to the relationship between science, technology and the society.
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
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.
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 physics at work!

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!

WonderWall Create an instant three-dimensional impression of the entire body in this 8ft. tall *Pin Wall*, which consists of over 40,000 plastic pins.

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.

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.

How High Can You Jump? Standing flat on their feet, students will jump up to try and reach the basketball hoop. The exhibit will determine their distance off the ground and just how high they can jump.

TV Trivia Two separate stations allow guests to choose a decade of TV theme songs to listen to and then have their knowledge tested as they try and guess the correct answer. This will be a favorite for teachers to take part in.

Space Suit Students will explore the life size replica of the astronaut space suit. This also makes a great photo opportunity.

Lazer-Tag 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.

Ropes Course WonderWorks Destiny features the world's largest suspended ropes challenge course, "Canyon Climb Adventure". It can be added to your students' field trip for an exciting experience. Students will be able to test their endurance and locomotor skills as they encounter over 81 different obstacles and physical activities on the 70ft tall ropes course. Closed shoes are required to participate and shorts must be worn under skirts or dresses.