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What is a virtual field trip for education

Although relatively new to this site, the Deepdale virtual field trip has been accessible to University of Worcester students since 2014. This location is truly fascinating. A newer virtual field trip for Moiry Valley is now available, which is one of the most popular sites on VR Glaciers, undoubtedly due to its Read More » Immersive virtual field trips strive to replicate real-life experiences and provide users with varying levels of control, such as deciding what to look at or where to go. For instance, Google Street View's 360° imagery allows users to view their surroundings in all directions, unlike standard photographs and videos that have predetermined views. This distinction is crucial because 360° imagery provides greater potential for creating educational activities centered around independent exploration and investigation. This project focuses on photography-based approaches to developing immersive virtual field trips due to the cost-effectiveness of this method at present if realism and detail are essential. The world's largest live nature cam network offers a vast array of webcams featuring various animal exhibits from around the globe. They have hundreds of live streams showcasing animals and prey from different ecosystems, providing an immersive experience for viewers. From Jellyfish to penguins, California Sea Lions to polar bears, and everything in between, these webcams offer a glimpse into the lives of incredible creatures. Some notable zoos and wildlife organizations with their own live webcams include the National Aquarium, Waikiki Aquarium, and San Diego Zoo, among others. These platforms allow visitors to observe animals without disrupting them, providing an up-close experience from the comfort of their homes. Additionally, there are webcams dedicated to specific animals or exhibits, such as the zoo's tundra exhibit featuring polar bear cubs and the National Parks Service's live dives in Channel Islands. For those who prefer to learn more about wildlife, websites like FarmFood 360 and WildlifeEarth.TV offer virtual tours and interactive lessons. The following places are available for virtual field trips: - The Turtle Hospital - Yellowstone National Park - Yosemite National Park - Haleakalā Crater - Nahuku Lave Tube - Agate Fossil Beds National Monument - Denali National Park - Chat With A Ranger - Channel Islands Live Dive National Gallery of Art Preserves and Collects Works of Art The National Gallery of Art preserves, collects, exhibits, and fosters an understanding of works of art in its various collections. Uffizi Gallery in Florence, Italy The Uffizi Gallery was designed by Giorgio Vasari in 1560 for Cosimo I de'Medici to house the Granducal Magistratures of Tuscany. The gallery offers virtual tours, allowing visitors to explore its vast collection of Renaissance art. Space Virtual Field Trips Explore the universe through virtual field trips, including a tour of Mars with NASA's Curiosity rover and a ride on the International Space Station's NASA Space Cam. Aerospace Virtual Tour With Boeing Join Boeing on a virtual field trip to the historic Johnson Space Center in Houston, Texas, where you can see exhibits such as the Saturn 5 Rocket. U.S. Space and Rocket Museum The U.S. Space and Rocket Museum offers interactive exhibits featuring historic rockets and spacecraft. Historical Virtual Field Trips Virtual field trips provide an opportunity for students to explore historical sites that may be inaccessible in person. Great Wall of China - 360 World Tour This virtual tour brings the Great Wall of China to life with stunning views and interactive features. Ellis Island Tour Explore Ellis Island through a virtual tour, allowing you to learn about its history and significance. Tour England Enjoy a beautiful tour of England in this 360-degree video. Machu Picchu - Unesco National Heritage Site 360 World Tour This virtual tour takes you on a journey around Machu Picchu, one of the Seven Natural Wonders of the World. The White House - 360-Degree Tour Get an up-close look at The White House with a 360-degree view of over a dozen rooms. MetKids Explore the Museum of Metropolitan Art in New York City through an interactive map and learn about its vast collection of art. The Liberty Bell Learn about the history and significance of the Liberty Bell from all angles through photos and interactive features. Museum of American Revolution - Virtual Tour Experience the Museum of the American Revolution from anywhere, with digital resources available on their website. The Leaning Tower of Pisa - Virtual Tour Take a virtual tour of this magnificent work of art, which took over 200 years to build. Buckingham Palace - 360-Degree Tour Explore Buckingham Palace in England through a grand staircase and art room, giving you a glimpse into its grandeur. Experience the thrill of adventure from home with virtual tours of iconic landmarks like Mount Rushmore, the Empire State Building, and Mount Everest! Learn about American culture through interactive classes on American signs and symbols. Explore pivotal moments in US history, such as the Civil War and Reconstruction, George Washington's experiences during the French and Indian War, and the lives of Chumash Indians on the Channel Islands. Embark on virtual field trips to Plimoth Plantation, where you'll discover colonial life, or visit the National Archives for interactive programs featuring primary sources. Delve into the daily routines of homesteaders in 1872 and learn about their homes, chores, and struggles. Follow a buffalo's journey through America's past and understand its importance to Native American communities. Get an inside look at historic events like the Homestead Act of 1862 and how it affected the lives of Americans. Join virtual lessons with park rangers from Fort Necessity National Battlefield and Durham Museum, where you'll engage in interactive classes on American history and culture. Virtual field trips for education, including interaction with scientists, virtual museum experiences, and interactive learning resources on topics like geology, agriculture, and environmental science. The program aims to increase global awareness about climate change while instilling hope for the future of our environment. Denali National Park experts can share engaging stories and knowledge with K-12th grade and university students through an informal Q&A session. Topics may cover various aspects of Denali, life in rural Alaska, and careers within the National Park Service. Longwood Gardens offers a hands-on lesson where students explore the plant's life cycle from seed to flower. This curriculum-based activity includes video, images, and interactive tasks led by a horticulturalist. A virtual field trip with Midwest Archeological Center will delve into archeological research, highlighting lab work, artifact analysis, and curation. The program also explores excavation methods and discusses the importance of stewardship, sustainability, and environmental responsibility. For younger students (K-3rd grade), Denali's Dinosaurs offers an interactive experience where staff teach about the park's prehistoric past using Zoom videoconferencing connections. Sports enthusiasts can take virtual tours of sports museums without leaving their homes. The program also features various virtual events, including: * Virtual field trips with Discovery Education that allow students to explore amazing places from home * A Boston Children's Museum virtual tour using Google Maps * Interactive videoconference programs with Farm Academy TV and Skype An Author Network * Collaborations with industry professionals through Nepris, providing real-world relevance and career exposure Using GoPro Max for Virtual Field Trips The GoPro Max is a great tool for capturing panoramic images. Its two wide-angle lenses allow it to take a 360° view, making it ideal for virtual field trips. Unlike smartphones, the pictures are taken instantly, reducing the risk of stitching errors. To use the GoPro Max effectively, you can hold it above your head or mount it on a tripod. The tripod should have a small footprint and be stable enough to avoid shaking in windy conditions. We recommend buying weights to attach to the base for added stability. Connecting your smartphone to the 360° camera remotely allows you to preview and capture shots while hiding behind an object. However, establishing a connection can take several minutes, depending on your device. The GoPro Max stitches two images together automatically, reducing stitching errors compared to smartphones. However, there may be some blurriness at the joins due to the optical limitations of the fisheye lenses. When using the GoPro Max, you'll output a single equirectangular image in JPEG format. The in-camera processing creates a more vibrant image than other cameras like the Insta360 OneX2 and Ricoh Z1. Note: For those interested in RAW file processing, both the OneX2 and Z1 allow it, unlike the GoPro Max. Editing RAW files in the Max provides more flexibility for image enhancement on paper, but our experience suggests that the benefits are subtle and not worth the extra steps involved. Compared to smartphones like the Pixel 6, which we used with a large monitor, the GoPro Max's output lacks resolution and quality. However, this comparison may not be as relevant when using smaller screens. The main advantage of the GoPro Max is its ability to capture 360° video, but it suffers from similar limitations in terms of resolution and quality. Even without using the video feature, you can still make use of the audio recordings. Given that the GoPro Max is now two years old, there are rumors of a potential replacement at the end of this year or early next year, which may make it a good idea to wait before purchasing one unless you need it immediately.