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History of the eiffel tower worksheet answers

The Eiffel Tower was built in 1887-1889 by the French engineer Gustave Eiffel, whose company specialized in building metal frames and structures. Gustave Eiffel is at the origin of many metallic works in Europe including Porto Viaduct (Portugal), Viaduct du Garabit (France) and Budapest Train Station (Hungary). Gustave Eiffel's company, located in Levallois Perret, very close to Paris, France, also built the metal frame for another world-famous monument: the Statue of Liberty (New York, USA), designed by Auguste Bartholdi and offered to the United States as a gift from France to commemorate the 100th anniversary of the American Declaration of Independence in 1886. What kind of metal is the Eiffel Tower off? The Eiffel Tower is made of iron, not steel. The puddle iron that forms the structure of the Eiffel Tower came from pompey forges (eastern France). The iron plates and beams produced by the puddling process were then assembled in the Eiffel factories of Levallois Perret with rivets. Finally, these pieces there are taken to the Eiffel Tower construction site to be assembled. The Prefab system is what allowed them to build the Eiffel Tower in record time of 2 years, 2 months and 5 days. Structure of the Eiffel Tower, © SETE_AlexandreNestora What is puddle iron? The iron used to build the Eiffel Tower went through a refining process called puddling that eliminated the excess carbon when the ore was melted. After this process you get almost pure iron, which according to Gustave Eiffel at the time was the best and most robust of materials. To protect it from corrosion, the iron is covered with a thick layer of paint that must be renewed every 7 years. This repainting scheme was recommended by Gustave Eiffel himself and is still respected so far. Why was the Eiffel Tower built? The Eiffel Tower was built to be one of the main attractions at the Paris World Fair in 1889. That year, the World Fair covered the entire Champ de Mars in Paris and its focus was the major structures in iron and steel that were the major industrial development of that time. First called the 300 meter Tower, it soon took the name of the man who built it, Gustave Eiffel. The tower opened to the public on the day of the World's Fair, 15 May 1889. Controversy over the tower raged in the art world before and during its construction, but thanks to the audacity of its architecture and design, visitors and Parisians immediately fell under its charm and more than 2 million people toured it in the first year. General view of the World Fair in Paris, 1889 Is the Eiffel Tower the symbol France? Its height and unique silhouette that hovered above the Paris landscape quickly made the Eiffel Tower one of the most popular attractions in Paris. The tower's fate is closely linked to the city of Paris, the capital of France and the owners of the Eiffel Tower. Since the beginning, the Eiffel Tower was recognised and served as a theatre for numerous events in life in Paris and France: the grandiose fireworks of 14 July (Bastille Day), events at national level and large-scale sporting events. The tower can be seen from many and different points around Paris and its suburbs. It is photographed, drawn, filmed, and replicated in all kinds of circumstances. It is the monument photographed by all visitors to Paris. It naturally slipped into the role of symbolizing France in the collective imagination, in films and graphic art but also in literature and poetry. What does the Eiffel Tower represent for The French? For 130 years, the Eiffel Tower has been a powerful and distinctive symbol of the city of Paris, and by extension, of France. First, when it was built for the 1889 World's Fair, it impressed the whole world by its scent and daring design, symbolizing French know-how and industrial genius. A monument known around the world and a unique tourist attraction, the Eiffel Tower has loyally accompanied the people of Paris and its suburbs in their daily lives. Rising to an altitude of 324 meters, it can be seen from all over Paris, and beyond, day and night until 1am thanks to its lighting, the flashing lighting at fixed times and its lighthouse reaching out to 80 km, at 360 degrees. The Eiffel Tower has witnessed and sometimes been an actor in important events, both lavish and tragic, in The History of France. In its early years the Eiffel Tower was a productive laboratory for scientific experiments, in particular for wireless telegraphy, which saved it from destruction after the initially scheduled period of 20 years. The tower's fate is also intimately linked to technological advances in radio and television. The TDF facilities and the sources of emissions at the summit sent all the digital terrestrial television and radio channels to the 12 million inhabitants of Île de France. Today, the Eiffel Tower lights are turned off at night in honor of the victims of dramatic events around the world. Even more than a symbol, it has become a means of expression for the city of Paris and the whole of France. Why is the Eiffel Tower shaped that way? We must first put the Eiffel Tower back in its historical context. Two engineers worked in Gustave Eiffel's company who in 1884 imagined building a metal tower 300 meters high for the 1889 World Fair in Paris. These engineers were specialists in large-scale metallic structures such as bridges, railway stations, viaducts, etc. It was only natural that the first sketch of the 300-meter Tower, issued from the calculations made by these two engineers, shows a pylon with 4 legs, each made of 4 sturdy beams linked by open-web joists that rise diagonally to meet at the summit. All these shapes and curves simply remember the largest viaducts built by Eiffel around the same time! Bridge Maria Pia in Porto - Postcard How many days did it take to build the Eiffel Tower? The Eiffel Tower was built in record time: 2 years, 2 and 5 days. From late January 1887 to March 31, 1889. In addition to the technical and architectural skill, the tower's rapid construction also represented an unprecedented achievement at the time. Is it illegal to take pictures of the Eiffel Tower at night? There's nothing to say you can't take pictures of the Eiffel Tower at night. Individuals are free to take pictures of the Eiffel Tower at night for private use or to share on social networks, for example. The situation is different for professionals: the different lights of the Eiffel Tower (golden, sparkles, lighthouse and lighting for special events) are protected by copyright. Thus, all nightly images of the Eiffel Tower used by professionals for professional purposes require prior permission from SETE (Société d'Exploitation de la tour Eiffel - Eiffel Tower management company) and eventually payment of usage rights. Is the Eiffel Tower a work of art? In the beginning, no one thought of the Tower of London as a work of art because it was the work of architects and engineers! The idea for a 300-metre high tower came, at that time, as part of preparations for the 1889 World's Fair. A competition was launched for the fair, in 1886, to study the possibility of raising an iron tower with a square base of 125 meters per side and a height of 300 meters. Gustave Eiffel's project, designed by engineers Maurice Koechlin and Emile Nouguier, and architect Stephen Sauvestre, was chosen from 107 other projects. © E.Livinec-SETE How many people died during the construction of the Eiffel Tower? There were no serious injuries or deaths during the construction of the Eiffel Tower. What does the Eiffel Tower mean? The Eiffel Tower took the name of its creator, Gustave Eiffel, 19th century French entrepreneur and engineer specializing in building large-scale metal structures (bridges, train stations, viaducts). How many people visit the Eiffel Tower every year? A must for anyone visiting Paris, a little over 6 million people climb the Eiffel Tower every year. The Eiffel Tower is open every day, and also at night, from 9:30 am to 11:45 pm, and in summer from 9:00 am to 12:45 pm. How many floors does the Eiffel Tower have? The tower has three floors open to the public: 1st floor, 2nd floor and summit. The 2nd floor has 2 levels, as well as the summit (a closed lower level, and an outdoor level above). Our visitors can reach the first two floors either by the stairs or by elevator. The ascent from the 2nd floor to the summit is only possible by elevator. What is the weight of the Eiffel Tower in tone? The Eiffel Tower weighs about 10,100 tons. The metal frame alone weighs 7,300 tons, while the paint that protects the structure weighs only 60 tons! Not ready to buy a subscription? Click to download the free sample version Download sample Eiffel Tower is a famous landmark in Paris, France. It was built between 1887 and 1889 for Expositionen also known as the World's Fair. The tower was Exposition's main attraction and cost £35 million to build. The Eiffel Tower is one of the most famous and well-known monuments in modern history and is the source of many issues among both children and adults. How long is the Eiffel Tower? How much does it weigh? Why was it built? Who is it named after? The list of questions continues. This page has some interesting and little know facts about the Eiffel Tower or alternatively download our comprehensive spreadsheet pack to utilize within the classroom or home environment. Facts About the Eiffel Tower The Eiffel Tower is located in Paris, France. Specifically, it is on the left bank of the Champ de Mars in the heart of Paris.Over 7 million people visit the Eiffel Tower every year. It was designed and built for the 1889 World's Fair Exposition and was not supposed to be permanent. Gustave Eiffel's company built the monument after being granted the commission. ExpositionEn Universelle (World Fair) was to mark the 100th anniversary of the French Revolution. Over 100 different artists submitted plans to be selected to build the monument. The commission went to Eiffel et Compagnie - owned by acclaimed bridge builder, metals expert and architect Alexandre-Gustave Eiffel.Although Eiffel often gets credit, one of his employees came up with the idea. The concept for the Eiffel Tower was designed and fine-tuned by Maurice Kochlin. He has Eiffel has previously worked together on the Statue of Liberty.The Eiffel Tower was the world's tallest man-made structure for 41 years. It was eventually beaten in 1931 when work on the Chrysler Building in New York City was completed. The tower is 324 meters high. That includes the antennas at the top. The entire monument weighs over 10,000 tons – 10,100 tons to be exact. It was the tallest structure in France until 1973. It was beaten by the military transmitter in the town of Saissac and later by the Millau viaduct, which was completed in 2004 and stands at 343 meters. There are 1,665 steps to the top of the Eiffel Tower. It is possibly climbing all the way up, but most people take the elevator. Every year, the lift in the Eiffel Tower travels 103,000 km. That's the equivalent of two and a half times around the world. In 1925, a man named Victor Lustig sold the Eiffel Tower twice. He was a fraudster who forged official government documents and sold the tower to a man named Andre Poisson, who was too embarrassed to go to the police after he learned the truth. Lustig tried the same scam again a month later - but fled when the buyer alerted the police. During cold weather the Eiffel Tower can shrink by as much as 6 inches. It took two years, two months and five days to build the Eiffel Tower. That's 180 days less than it took to mount Paris' other major monuments – Notre Dame.During World War 2, Nazi soldiers tried to put a swastika on the tower. They cut the tower's elevator cables and closed it to Public. Then they tried to attach a swastika to the top but it was so big that it blew away and had to be replaced with a smaller one. Adolf Hitler tried to destroy the Eiffel Tower in 1944. He ordered the military governor of Paris, Dietrich von Choltitz, to demolish the tower and other parts of the city, but the general refused. Repainting of the tower uses about 60 tons of paint. This is done every seven years and takes 15 to 18 months to paint the entire structure. Blackpool Tower in the UK is inspired by the Eiffel Tower. Sir John Bickerstaff, mayor of Blackpool, was at the 1889 World's Fair and was so impressed, he built a similar tower on the English sea in Blackpool. There are 72 names engraved on the side of the tower. These are the names of engineers, scientists and mathematicians who contributed to its design and construction. There are 20,000 light bulbs on the Eiffel Tower. These are lit in the evening to make it sparkle every night. It was in the Guinness Book of Records for the world's largest ad from 1925 to 1934. It was used by car manufacturer Citroen. The company's name was placed on the tower using 250,000 light bulbs. The first floor of the Eiffel Tower was converted into an ice rink in 2004. There is a LEGO set from the Eiffel Tower. The model number for the set is 10181 and it contains 3,428 LEGO blocks. An American woman married the Eiffel Tower. In 2007, as part of a commitment ceremony, an American woman named Erika LaBrie married the Eiffel Tower and changed her name to Erika Eiffel. The relationship was the subject of a lot of global publicity in the news. Eiffel Tower SpreadsheetThis bundle contains 11 ready-to-use Eiffel Tower Worksheets that are perfect for students who want to learn more about one of the Eiffel Tower which is one of the most famous and well-known monuments in modern history and is the source of many issues among children and adults alike. 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