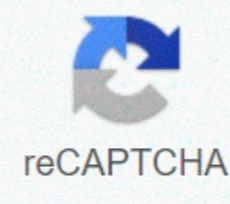




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Manhattan project worksheet answers

In order to continue to enjoy our site, we ask you to confirm your identity as a human being. Thank you very much for your cooperation. The Manhattan Project By Mary Lynn Bushong 1 One of the great fears at the beginning of World War II was that the Nazis were working on the development of an atomic bomb. Albert Einstein sent a letter to President Roosevelt encouraging him to fund research on nuclear fission for weapons to stop the Nazis. 2 In September 1942, General Leslie R. Groves of the Army Corps of Engineers was selected to lead the research project. However, even before bomb designs could be considered, much more had to be learned. The original name of the project was the cryptic Development of Alternative Materials. Groves didn't care about that name, and he chose another one. The Army Corps of Engineers used to name projects after the city's headquarters. In this case, it was in New York, and the name became the Manhattan Project. 3 On September 19, 1942, 32,000 acres in Oak Ridge, Tennessee, were purchased to become a secret laboratory and production site. Then, on November 16, the Los Alamos property became another site. 4 One of the first experiments conducted for the Manhattan project was to find out if a nuclear chain reaction could be produced. The successful experiment of December 2, 1942 was carried out by an Italian scientist named Enrico Fermi. He conducted the experiment under the stags of field at the University of Chicago. 5 In February 1943, the new electromagnetic separation facility to enrich uranium was launched at Oak Ridge. The calutras that did the work were monitored by the WAAC. However, before uranium could be enriched, the right type had to be found. It was decided that U (uranium) -235 was good for the job. He was unstable and could sustain a chain reaction. 6 A second element, P (plutonium) -239, was another reactive substance with potential. The problem was that these two elements were rare and it would be difficult to find as many as necessary for the work. 7 There are many uranium deposits in the world, but only 1% of it is U-235. The rest is useless for making bombs. The separation of isotopes has been tried in different ways. The first was to use magnetic separation. The second was through a process called gas diffusion. It has proven to be the most effective and efficient method of producing U-235. The third way was to use a centrifuge, but it was abandoned before being tested. 8 A third test site was acquired in Hanford, The small reactor was too dangerous to continue using in Chicago, and the Oak Ridge site was too close to Knoxville in case something happened to the planned large reactor. The possible fuels had to be tested and the bombs themselves designed. The Hanford site was deemed remote not to be a problem. 9 In total, the project produced 3 atomic bombs. The first was Gadget, a plutonium bomb that would explode at the trinity test site. The second was Little Boy, a uranium bomb. The last one was Fat Man, another plutonium bomb. 10 In April 1944, there was a possible problem for the project. President Roosevelt is dead, and President Truman has taken office. He was not aware of the Manhattan project and should be informed. No one was sure what he would say would continue or delete it. The project continued. 11 A month after Truman took office, Germany surrendered. The bomb originally destined for Germany would now be directed to Japan. 12 The first test was scheduled for July 16, 1945. The amount of radioactive fallout was unknown. There was also no replacement bomb, as the test was conducted using the first plutonium bomb. The explosion turned out to be much larger than expected. 13 There were many reasons to use and not use the bombs. The United States wanted a swift and unconditional surrender. The Japanese army was in no hurry to do so. The Americans wanted the war to be over before the Russians could arrive and complicate the outcome. Many felt that the use of bombs was the last step in defending the United States against an aggressor. 14 Those who did not want the bombs to be used were the scientists who built them. They hoped that a demonstration of the bomb's function would deter the Japanese army. They understood the risk of injury and death, but at that point it was out of their hands. 15 On August 6, 1945, Little Boy was piloted by the B-29 Enola Gay in Japan and crashed over Hiroshima. It killed 66,000 people instantly, and a total of 140,000 had died by the end of the year, most of them from radiation poisoning. Three days later, a second bomb was dropped over Nagasaki. Fat Man missed the city, but despite this, killed about 70,000 people at the end of this year. 16 The Manhattan Project killed more than 200,000 people, but violence was not his only legacy. Scientists like Oppenheimer have become active in the regulation of atomic energy. Like all forms of power, it has had its negative and positive uses. Copyright © 2012 edHelper Name - What is the name of the original nuclear weapons development project? 2. Where was the first nuclear reactor built? 3. What was the test result of the test bomb explosion? 4. What are the two elements used to make the bombs? Uranium and tritium Plutonium and deuterium Uranium and deuterium Uranium and plutonium 5. Was the Hanford, Washington site necessary? 6. Truman was aware of the Manhattan project before becoming president. False true 7. Which of them was not the name of a nuclear Man Gadget Little Boy The Blob 8. List a pro and a reason for using the bomb. The Manhattan Project By Mary Lynn Bushong Directions: Fill each white with the word that best complements the understanding of reading. Copyright © 2012 edHelper Name - What is the name of the original nuclear weapons development project? 2. Where was the first nuclear reactor built? 3. What was the test result of the test bomb explosion? 4. What are the two elements used to make the bombs? Uranium and tritium Uranium and plutonium Plutonium and deuterium Uranium and deuterium 5. Why was the Hanford, Washington site necessary? 6. Truman was aware of the Manhattan project before becoming president. False true 7. Which of them was not the name of a nuclear bomb? Gadget The Blob Little Boy Fat Man 8. List a pro and a reason for using the bomb. 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Con: the death and suffering of those affected. People.

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