

## The Manhattan Project

In 1938 many people feared that Hitler would build an atomic bomb after word spread that German scientist had split the uranium atom (fission). However, one of Hitler's mistakes was his persecution of Jewish scientists. This persecution resulted in numerous scientists seeking asylum in the United States. One such scientist was Albert Einstein. Einstein, abandoning his belief in pacifism, urged then president Franklin Roosevelt to develop an atomic bomb before Hitler did. Eventually Roosevelt agreed and the United States attempt at building the atomic bomb was code named The Manhattan Project.

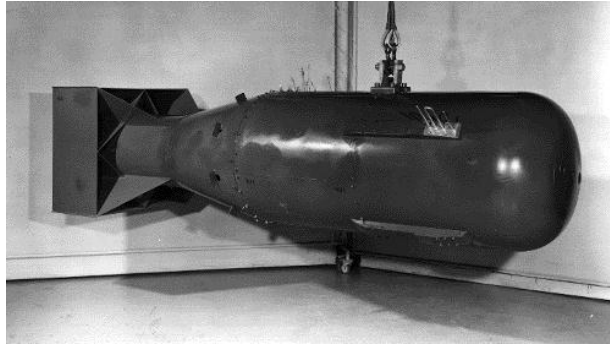
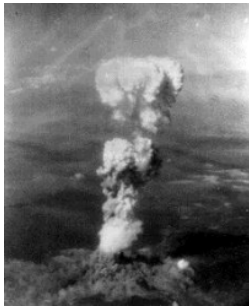
## Who

The Manhattan Project was carried out in extreme secrecy. By 1945, the project had nearly 40 laboratories and factories which employed approximately 200,000 people. Among these employees were some of the greatest scientist that have ever lived. Included in this lot were Albert Einstein, Enrico Fermi, Richard Feynman, J. Robert Oppenheimer, and Harold Urey (and this is but a hand full of the many).

## Results

Through the combined efforts of many, a test bomb known as "Fat Boy" was finally created. On July 16, 1945 in New Mexico the worlds first nuclear test, codenamed Trinity, was conducted. The Trinity test success led to the creation of two more atomic bombs that would be used in WWII.

On August 6, 1945 the American B-29 bomber, Enola Gay, dropped the 9,000 pound bomb, nicknamed "Little Boy", on Hiroshima, Japan.



"Little Boy's" explosion was catastrophic and resulted in 66 thousand instantaneous deaths. Total vaporization from the blast measured one half a mile in diameter. Total destruction ranged one mile in diameter and serious blazes extended as far as three miles in diameter.

Three days after the release of "Little Boy" a second bomb named "Fat Man" was released on the town of Nagasaki.

"Fat Man" weighed 10,000 pounds and annihilated nearly half of the city. In one split-second, the population of Nagasaki dropped from 422,000 to 383,000. As astonishing as this seems, scientist estimate that both "Little Boy" and "Fat Man" only utilized 1/10th of 1 percent of their explosive capabilities.

