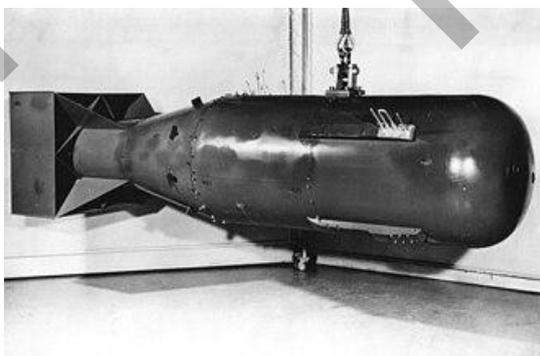


1

Answer the following questions in your own words.

1. What was the aim of the Manhattan Project? **to develop an atomic bomb**
2. Where was most of the research work done ? **at Los Alamos in the New Mexican desert**
3. Who made President Roosevelt aware that the Germans were creating a nuclear weapon ? **Albert Einstein**
4. Which elements were needed to create an atomic bomb? **uranium and plutonium**
5. Who was Enrico Fermi? **an Italian physicist**
6. What is a chain reaction ? **an event that produces energy over and over again**
7. Who did the Americans hire to help build a bomb? **Canadian and British scientists as well as German scientists who fled from Europe**
8. Who was the leader of the Manhattan Project ? **Robert Oppenheimer**
9. When and where was the first atomic test carried out ? **June 16, 1945, 400 km south of Los Alamos**
10. Describe in short what happened during the test . **a gigantic explosion, a flash of light and a tremendous heat wave; a mushroom cloud was visible, and a huge crater was formed**
11. How did the United States force Japan to surrender ? **by dropping two atomic bombs over Hiroshima and Nagasaki**
12. What was the difference between the bomb dropped over Hiroshima and the one dropped over Nagasaki ? **the first one was a uranium bomb, the second one a plutonium bomb**
13. Why is the time after World War II called the Atomic Age? **the United States and the Soviet Union started producing nuclear devices**



Little Boy was the first atomic bomb, dropped over Hiroshima

Image: [US Atomic Energy Commission \(now US Department of Energy\)](#), Public domain, via Wikimedia Commons

2

Match the words on the left with the definitions on the right.

A	desert	E	another word for "atomic"
B	dynamite	G	people who run the country
C	Atomic Age	F	give up
D	Fascist	J	escape from a dangerous situation
E	nuclear	N	object you fight with in a war
F	surrender	D	a member of a political system where the government controls everything and no opposition is allowed
G	government	Q	event that produces energy and leads to more reactions of the same kind
H	split	C	time after World War II, when the US and the Soviet Union created nuclear weapons
I	accompany	M	to be seen
J	flee	O	information, what you know about something
K	research	H	divide, separate
L	gigantic	A	large area of land where it is always hot and there is not much rainfall
M	visible	P	set free
N	weapon	R	object, machine
O	knowledge	L	very large
P	release	I	go together with
Q	chain reaction	B	powerful explosive used especially for breaking rock
R	device	K	to find out more about a topic or try out new things

3

Complete the sentences with the correct words or phrases.

1. The Manhattan Project was the code name of a government project to create a/an **atomic bomb / nuclear bomb/nuclear device/atomic device** .
2. Most of the work was done at the Los Alamos laboratory in the **New Mexican** desert.
3. The project began when German physicist **Albert Einstein** warned America that the Germans were working on a nuclear weapon.
4. In order to produce a nuclear bomb large amounts of **uranium** and **plutonium** are needed.
5. After the Japanese attack on **Pearl Harbour / America / the USA** , a research group was put together. It included many scientists who fled from the **Nazis / Fascists** in Germany.
6. In 1942, Enrico Fermi, an Italian scientist, carried out the first controlled **chain reaction** .
7. The first test was visible for many miles and created a gigantic **heat wave** . Observers could see a **mushroom cloud** rising into the sky.
8. In August 1945 the USA decided to end the war by forcing **Japan** to surrender.
9. The first bomb, called **Little Boy**, was dropped over **Hiroshima** . Three days later the second nuclear device , **Fat Man** , destroyed most of **Nagasaki** .

4

Explain in your own words

engineer **someone whose job it is to build objects, like roads, bridges, weapons etc...**

code name **secret name used for a person or a project**

laboratory **place where scientists carry out experiments**

enemy **the people or country you fight against in a war**

facility **building used for a special job**

visible **something that can be seen**

Atomic Age **time after 1945 when the USA and the Soviet Union developed nuclear weapons**

