

1

Answer the following questions in your own words.

1. What was the aim of the Manhattan Project. _____

2. Where was most of the research work done? _____

3. Who made President Roosevelt aware that the Germans were creating a nuclear weapon? _____

4. Which elements were needed to create an atomic bomb? _____
5. Who was Enrico Fermi? _____
6. What is a chain reaction? _____

7. Who did the Americans hire to help build a bomb? _____

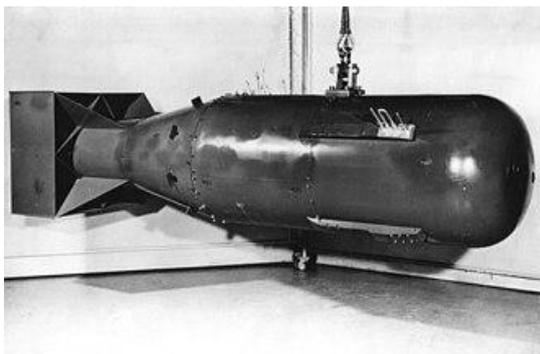
8. Who was the leader of the Manhattan Project? _____
9. When and where was the first atomic test carried out? _____

10. Describe in short what happened during the test. _____

11. How did the United States force Japan to surrender? _____

12. What was the difference between the bomb dropped over Hiroshima and the one dropped over Nagasaki? _____

13. Why is the time after World War II called the Atomic Age? _____



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 | | | another word for "atomic" |
| B | dynamite | | | people who run the country |
| C | Atomic Age | | | give up |
| D | Fascist | | | escape from a dangerous situation |
| E | nuclear | | | object you fight with in a war |
| F | surrender | | | a member of a political system where the government controls everything and no opposition is allowed |
| G | government | | | event that produces energy and leads to more reactions of the same kind |
| H | split | | | time after World War II, when the US and the Soviet Union created nuclear weapons |
| I | accompany | | | to be seen |
| J | flee | | | information, what you know about something |
| K | research | | | divide, separate |
| L | gigantic | | | large area of land where it is always hot and there is not much rainfall |
| M | visible | | | set free |
| N | weapon | | | object, machine |
| O | knowledge | | | very large |
| P | release | | | go together with |
| Q | chain reaction | | | powerful explosive used especially for breaking rock |
| R | device | | | 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 _____ .
2. Most of the work was done at the Los Alamos laboratory in the _____ desert.
3. The project began when German physicist _____ warned America that the Germans were working on a nuclear weapon.
4. In order to produce a nuclear bomb large amounts of _____ and _____ are needed.
5. After the Japanese attack on _____, a research group was put together. It included many scientists who fled from the _____ in Germany.
6. In 1942, Enrico Fermi, an Italian scientist, carried out the first controlled _____.
7. The first test was visible for many miles and created a gigantic _____. Observers could see a _____ rising into the sky.
8. In August 1945 the USA decided to end the war by forcing _____ to surrender.
9. The first bomb, called _____, was dropped over _____. Three days later the second nuclear device, _____, destroyed most of _____.

4

Explain in your own words

engineer _____

code name _____

laboratory _____

enemy _____

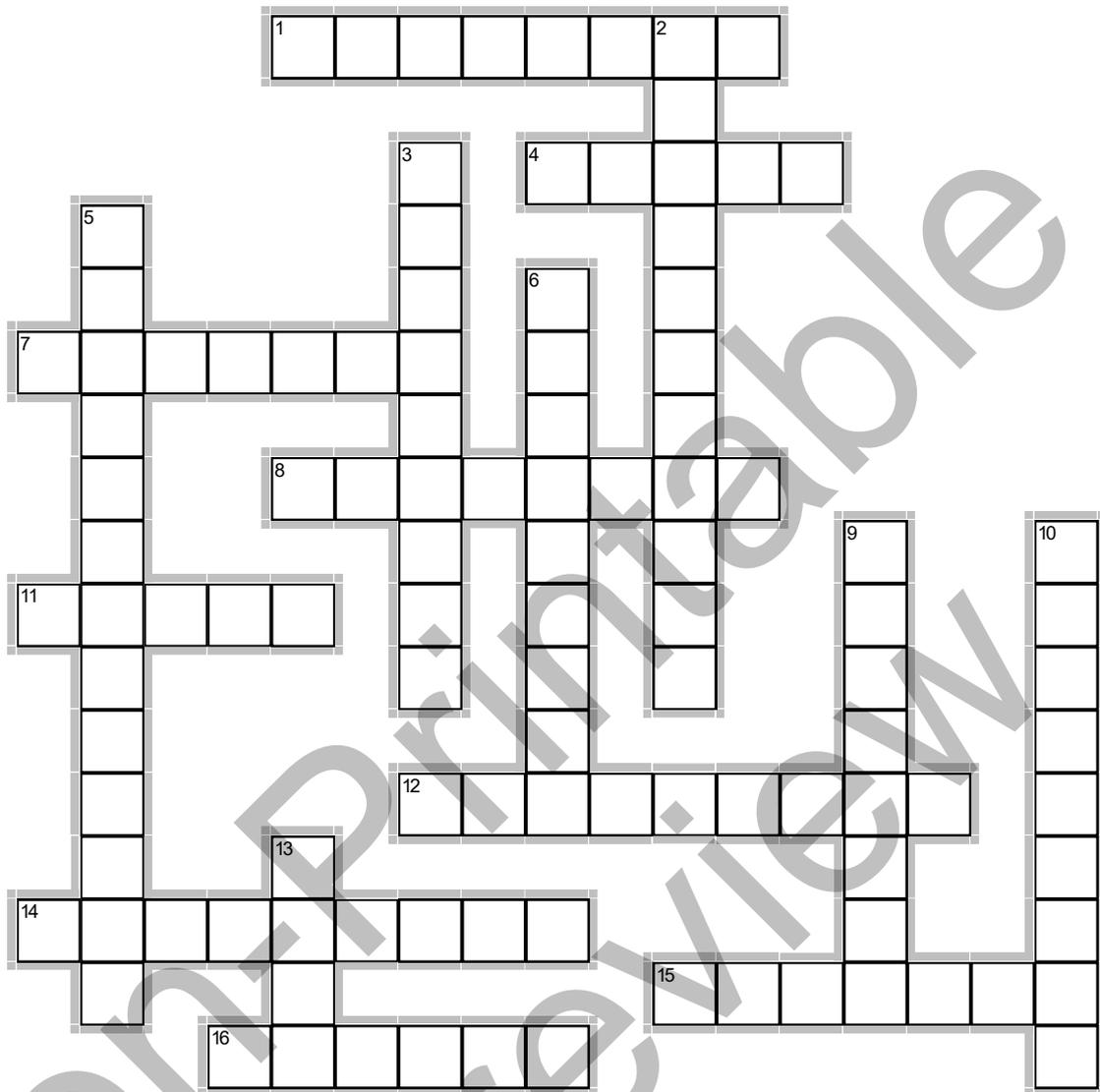
facility _____

visible _____

Atomic Age _____

5

Crossword



Across

Down

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. shape of the cloud created by a nuclear explosion 4. Pacific country that America was at war with 7. person who was a member of the political system in Germany and Italy during World War II 8. last name of a famous German scientist 11. last name of a famous Italian physicist 12. person who has special knowledge of physics 14. name of desert site that was the centre of the project (two words) 15. if you can see something it is _____ 16. large area of land where there is little or no rainfall | <ol style="list-style-type: none"> 2. leader of the Manhattan project (last name) 3. raw material needed to create a nuclear bomb 5. event that produces energy over and over again (two words) 6. name of first atomic bomb dropped over Japan (two words) 9. Japanese city that was destroyed by an atomic bomb 10. give up in a war 13. to escape from a dangerous situation |
|--|--|