

*It's OK to write on this*

Atomic Bomb Notes

Einstein's Letter

1. Why did Szilard want Albert Einstein to write a letter to the president for him?
2. You can tell how much energy is contained in a given body of mass just by running it through which of Einstein famous equation?
3. List one possible good use and one possible bad use of atomic energy.
GOOD: _____ **BAD:** _____
4. Growing up, Szilard read HG Wells book, "The World Set Free". According to that book, after a nuclear war, a perfect society would be created. Who would rule this new world?
- Q** 5. They believed that a nuclear weapon would force nations into what?
6. How did Albert Einstein feel about war?
- Q** 7. What was the one argument for building the bomb that convinced even pacifists (people against war) to support the idea?
8. How did Einstein convince the government to fund the project?
9. What fear drove Einstein and Szilard"?"
10. When they finally got all the scientists together, what did they call the secret mission to develop an atom bomb?
11. Why was building the reactor such a dirty job?
12. Why didn't Roosevelt receive Szilard's second letter?
13. Which country was the next to detonate an atomic bomb?
14. In the end, how did Einstein feel about his decision to write that first letter to FDR.
- Q** 15. How has this weapon limited the possibility of war?

MAKE-UP ASSIGNMENT: FOR CREDIT COPY ONTO YOUR OWN WORKSHEET

(If you would like to save a tree... put it back into the handouts files when you are finished)

Atomic Bomb Notes

Einstein's Letter

1. Why did Szilard want Albert Einstein to write a letter to the president for him?
TO INSURE IT WOULD BE TAKEN SERIOUSLY
2. You can tell how much energy is contained in a given body of mass just by running it through which of Einstein famous equation? **$E=MC^2$**
3. List one possible good use and one possible bad use of atomic energy.
GOOD: REPLACE COAL AS ENERGY SOURCE BAD: A HORRIBLE WEAPON
4. Growing up, Szilard read HG Wells book, "The World Set Free". According to that book, after a nuclear war, a perfect society would be created. Who would rule this new world? **A GROUP OF SCIENTISTS**
- Q** 5. They believed that a nuclear weapon would force nations into what? **PEACE**
6. How did Albert Einstein feel about war? **HE WAS A PACIFIST = HE WAS AGAINST ALL WARS**
- Q** 7. What was the one argument for building the bomb that convinced even pacifists (people against war) to support the idea? **THE IDEA THAT THE GERMANS WERE WORKING ON THEIR OWN NUCLEAR PROGRAM**
8. How did Einstein convince the government to fund the project? **BLACKMAIL – HE THREATENED TO PUBLISH THEIR FINDINGS = TELL THE WORLD**
9. What fear drove Einstein and Szilard"? **FEAR THAT HITLER WAS BUILDING A BOMB**
10. When they finally got all the scientists together, what did they call the secret mission to develop an atom bomb? **THE MANHATTAN PROJECT**
11. Why was building the reactor such a dirty job? **THE STRUCTURE WAS MADE OUT OF GRAPHITE (PENCIL LEAD) WHICH MADE EVERYONE'S HAND BLACK**
12. Why did Roosevelt receive Szilard's second letter? **ROOSEVELT DIED**
13. Which country was the next to detonate an atomic bomb? **THE SOVIET UNION**
14. In the end, how did Einstein feel about his decision to write that first letter to FDR. **HE REGRETTED IT, HE SPENT THE REST OF HIS LIFE TRYING TO FIND A WAY TO CONTROL NUCLEAR**
- Q** **POWER**
15. How has this weapon limited the possibility of war? **IT HAS FORCED US TO LOOK AT WHAT WE DO TO EACHOTHER**