

## Fission and Fusion

### Nuclear Weapons

There are two main types of nuclear weapons: atomic bombs, which are powered by **fission reactions** similar to those in nuclear reactors [power plants], and hydrogen bombs, which derive their explosive power from **fusion reactions**.

An **atomic bomb** slams together two pieces of fissionable material, usually uranium-235 or plutonium-239. This releases its energy instantaneously as atoms inside it split in an uncontrolled **chain reaction**. On August 6, 1945, an atomic bomb called Little Boy was dropped on the Japanese city of Hiroshima, followed three days later by another, called Fat Man, on Nagasaki.

**Hydrogen bombs** fuse together hydrogen atoms to form heavier helium atoms, releasing far more energy than a fission bomb. Two **isotopes** of hydrogen are used - deuterium ( ${}^2_1H$ ) and tritium ( ${}^3_1H$ ). Hydrogen bombs have never been used in war and are thousands of times more powerful than atomic bombs.

For questions 1-7 identify each as a fusion or fission

1. Used in nuclear power plants: \_\_\_\_\_
2. Occurs on the sun: \_\_\_\_\_
3. More power per gram: \_\_\_\_\_
4. A larger nucleus divides to make a smaller nucleus: \_\_\_\_\_
5. Two hydrogen atoms fuse to make a helium atom: \_\_\_\_\_
6. An atomic bomb: \_\_\_\_\_
7. A hydrogen bomb: \_\_\_\_\_

For questions 8- 12 balance the nuclear equation, then indicate if the equation represents fission or fusion (circle one).



# Fission Versus Fusion Worksheet Answers

**BM King**



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