**Assignment:\_\_2\_\_**

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour:\_\_\_\_\_**

**Fusion vs. Fission**



**Fusion**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of 2 or more \_\_\_\_\_\_\_\_\_\_\_ atoms into a \_\_\_\_\_\_\_\_\_\_\_ one, \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ to become more \_\_\_\_\_\_\_\_\_
* Intense heat and pressure \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Happens in the \_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_)





**Fission**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a \_\_\_\_\_\_\_\_\_\_\_ atom into 2 or more \_\_\_\_\_\_\_\_\_\_\_ ones, \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ style… one \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_ an \_\_\_\_\_\_\_\_\_, more neutrons break off… split more atoms etc.
	+ A \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ that causes the \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ to occur over and over
* Doesn’t normally happen in \_\_\_\_\_\_\_\_\_\_\_
* Used in \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_
* Used in \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

**Nuclear Bombs**

* Have been used on \_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Used at the end of WWII, Little Boy (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) and Fat man (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)
* Over \_\_\_\_\_\_\_\_\_\_\_\_\_ have been tested by the \_\_\_\_\_\_\_\_ alone

**Nuclear Power Plants**

* Cadmium Control Rods – used in nuclear power plant to \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_ by absorbing particles needed for the chain reaction
	+ If they stop working the reactor could \_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_