|  |  |
| --- | --- |
| **Fission** | **Fusion** |
| 1 larger atom splits into 2 smaller atoms | 2 smaller atoms form 1 larger atom  |
| A type of nuclear reaction | A type of nuclear reaction |
| Releases less energy than the other | Releases more energy than the other |
| Reaction at a nuclear power plant | Elements are created by this on the sun |
| Reaction for Fat Man and Little Boy (the 2 atomic bombs the US dropped on Japan) | Reaction that occurs in a hydrogen bomb or thermonuclear bomb |
| $$ **+** $ $**🡪** $$ **+** $$ **+ 3** $$ | $$ **+** $$ **🡪**$$ **+** $$ |
| $$ **+** $ $**🡪** $$ **+** $$ **+ 3** $$ | $$ **+** $ $**🡪** $$ **+ 3** $$ |