Name: _____ Date: _____

Nuclear Chemistry

1. Time required for half of a sample to decay
2. Joining of two small nuclei
3. Fission reactions happen here
4. Products of a reaction cause other reactions to start
5. Uncontrolled chain reaction
6. Splitting of atomic nuclei
7. Attractive forces between protons and neutrons
8. Repulsive forces between protons
9. Fusion reactions happen here
10. Mass is not destroyed, but converted into energy

A. Fusion
B. Nuclear forces
C. Atomic bomb
D. Chain reaction
E. Electrostatic forces
F. Half-life
G. Sun and stars
H. E=mc^2
I. Nuclear reactor
J. Fission