

natural transmutation - Uranium spontaneously decays.



artificial transmutation - bombardment of a stable isotope to force it to decay.



When the bullets are + charged, they are repelled by the nucleus they are bombarding. To overcome the repulsions, they must be accelerated to very high speeds by particle accelerators.

nuclear fission - Heavy nuclei are bombarded with neutrons and split.



Mass of particles produced is slightly more than the mass of the reactants.  
This mass is converted into energy ( $E=mc^2$ )

critical mass: minimum mass of fissionable material  
required for a chain reaction

nuclear reactors: control fission chain reactions to produce energy  
dangers:

nuclear fusion - combination of 2 nuclei into 1 with release of energy



Mass of particles produced is much more than the mass of the reactants.  
This mass is converted into energy. ( $E=mc^2$ )

On back, list advantages of and problems with using fusion as an energy source.

#### CHEMISTRY: A Study of Matter

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The issues with using fusion as energy <sup>15.3</sup> generally just come from concern for the public and their safety due to storage of nuclear material for a long time causing concern as well as radioactivity being a big issue.

# Note Taking Guide 1502 Chemistry

**Mike Jess**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## Note Taking Guide 1502 Chemistry:

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