

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Nuclear Fission and Fusion

### *Learning Objectives*

- Compare and contrast nuclear fission and nuclear fusion.
- Understand the conservation laws that apply to nuclear reactions.

### *Vocabulary*

- Fission, fusion, transmutation and nuclide.

### *Why?*

Fission and fusion are two processes that alter the nucleus of an atom. Nuclear fission provides the energy in nuclear power plants and fusion is the source of the sun's energy. The use of fission in power plants can help conserve fossil fuels. Without the energy produced by the fusion of the hydrogen in the sun, the Earth would quickly change into a cold planet that could not support life as we know it.

### *Information*

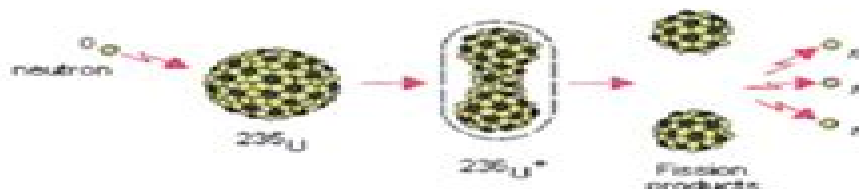
Transmutation is the transformation of the nucleus of an atom so that the atom is changed from one element into a different element. This can be accomplished through many types of reactions, including fission and fusion.

Nuclear transformations always obey two fundamental conservation laws: (1) mass number is conserved and (2) electrical charge is conserved. Energy and mass are not served, but can be inter-converted according to Einstein's equation,  $E=mc^2$ . The amount of binding energy released from the nucleus of an atom during fission and fusion is so tremendous that a small fraction of mass is converted to energy; this is referred to as the mass defect.

### *Model*

#### **1. Fission**

The process of fission occurs when a nucleus splits into smaller pieces. Fission can be induced by a nucleus capturing slow moving neutrons, which results in the nucleus becoming very unstable.



(<http://chemed.chem.purdue.edu/grochessa/topiccon/inner/typ/ch23/Fission.html>)

The following equations represent fission reactions, where n = neutron.



# Fission V Fusion Answer Key

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**Velavancorresponding**



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