

## Nuclear Fission and Fusion

### Why?

Fission and fusion reactions generate heat which can be used to generate electricity. Nuclear fission provides the energy for nuclear power plants and fusion is the source of the sun's energy. The use of fusion in power plants can help conserve fossil fuels. However, the major problem is the creation of isotopes of hydrogen, the fuel for fusion. Isotope storage and isotope management that control and support the use of fusion is.

### Learning Objectives

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

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### Conservation

- 1. Fission
- 2. Fusion
- 3. Conservation
- 4. Fusion

### Conservation

- 1. Conservation of mass and energy.
- 2. Conservation of mass number and atomic number.
- 3. Atomic number conservation (mass number, atomic number, and energy).

### Conservation

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

Fusion: transformation of two light nuclei into a heavier nucleus. Conservation of mass number and atomic number is conserved.

Energy and mass are conserved, but not the total energy-mass. Conservation of mass number,  $E = mc^2$ .

# Pogil Answer Key 2005 Nuclear

**Minjie Lin**

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.

**Pogil Answer Key 2005 Nuclear:**

## **Pogil Answer Key 2005 Nuclear** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Pogil Answer Key 2005 Nuclear**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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